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SAVANNAH STATE COLLEGE
Savannah, Georgia 31404
1978 - 1979

*Savannah State College, a unit of the University System of Georgia,
is a College of Arts and Sciences, Teacher Education, Business
Administration, and Engineering Technology*

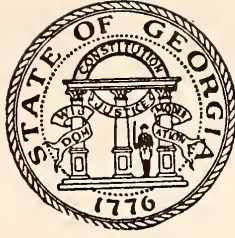
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IMPORTANT NOTICE

The statements set forth in this Catalog are for informational purposes only and should not be construed as the basis of a contract between a student and this institution. While the provisions of this catalog will ordinarily be applied as stated, *Savannah State College* reserves the right to change any provision listed in this catalog, including but not limited to academic requirements for graduation, without actual notice to individual students. Every effort will be made to keep students advised of any such changes.

Information on changes will be available in the offices of: *Division Chairmen, Department Heads, Registrar and Dean of the College*. It is especially important that each student note that it is his/her responsibility to keep himself/herself apprised of current graduation requirements for his/her particular degree program.



THE SAVANNAH STATE COLLEGE BULLETIN

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GENERAL INFORMATION: HISTORY, PURPOSE, PROGRAMS

HISTORY

By Act of the General Assembly on November 26, 1890, the State of Georgia "established in connection with the State University, and forming one of the departments thereof, a school for the education and training of Negro students." A commission was appointed to procure the necessary grounds and buildings, and to prescribe a course of study that would include those studies required by the Morrill Land-Grant Acts of 1862 and 1890.

The Commission on the School for Negro Students was designated as the Board of Trustees for the School, with perpetual succession subject to the general Board of Trustees of the University of Georgia. The Chancellor of the University of Georgia was given general supervision of the school.

A preliminary session of the school was held between June 1 and August 1, 1891, at the Baxter Street School building in Athens, Georgia. Richard R. Wright, the first principal, and three other instructors comprised the faculty. In the following year the school was moved to its present site, which is approximately five miles southeast of the Courthouse of Savannah, Georgia, partly in Savannah and partly in Thunderbolt. The school was given the name "The Georgia State Industrial College for Colored Youths," and its faculty consisted of Major Wright as President, instructors in English, mathematics, and natural sciences, a superintendent of the mechanical department, and a foreman of the farm.

During the thirty years that Major Wright served as President of the College, enrollment increased from 8 to 585 and the curriculum was expanded to include a normal division in addition to four years of high school. Training in agriculture and the mechanical arts also was begun.

The first women students were admitted as boarders in 1921; the first summer session was conducted in 1922; and in 1925 the governing body of the College was changed from a Commission with "perpetual succession" to a Board of Trustees whose members were appointed for four year terms. All of these changes occurred during the presidency of C. G. Wiley, who served from 1921 to 1926.

Under President Benjamin F. Hubert (1926-1947), the entire academic program was reorganized. The high school and normal departments were discontinued and the school became a four-year college. In 1931, when the University System was placed under a Board of Regents, the College began to offer bachelor's degree programs,

with majors in English, the natural sciences, social sciences, and business administration, as well as in agriculture and home economics.

Until 1947, the College served as the state land-grant institution for Negroes. In that year this function was assumed by Fort Valley State College.

During the administration of President James A. Colston (1947-1949), the faculty was strengthened and improvements were made in the physical plant. Among the programs that were launched at this time were the Alumni Scholarship Drive, Campus Chest, Annual Men's Day, Religious Emphasis Week, Freshman Week, and the Cultural Artists Series. Expanded programs of student personnel services and public relations, a reading clinic, and an audio-visual aids laboratory were instituted under the leadership of President Colston.

Dean W. K. Payne became acting president of the College on September 1, 1949. The Regents of the University System of Georgia changed the name of the College from Georgia State College to Savannah State College on January 18, 1950. Dr. Payne became the fifth President of the College on March 1, 1950; he served in this capacity until his death on July 26, 1963.

At the beginning of Dr. Payne's administration, Savannah State College was granted membership in the American Council on Education. During the course of his administration the curriculum was expanded and improved and the institution was admitted to membership in the Southern Association of Colleges and Schools. In addition, the academic program of the College was organized under seven divisions—Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Home Study.

Mr. Timothy C. Myers served as acting president from the time of Dr. Payne's death until November 1, 1963. Mr. Myers had served as dean of the faculty since September, 1953.

Under the inspired leadership of Dr. Howard Jordan, Jr. (November 1, 1963 through January 31, 1971), significant, far-reaching and innovative programs were initiated in all aspects of the College's development. Curricula improvements in the general education program, in teacher education, and in business administration, as well as other areas, were carried forward. A graduate studies program in elementary education was initiated in the summer of 1968. The mantle of educational leadership at Savannah State Col-

lege passed from Dr. Jordan to Dr. Prince A. Jackson, Jr., on February 1, 1971.

Many of the improvements and innovations begun during President Jordan's administration came to fruition during the first year of Dr. Jackson's tenure. At the time of his appointment, the new President was chairman of the Division of Natural Sciences and director of the Institutional Self-Study which resulted in reaccreditation of the College by the Southern Association of Colleges and Schools in December, 1971. During that same year the College was accredited by the National Council for the Accreditation of Teacher Education (NCATE). The three engineering technology programs—civil, electronics, and mechanical—were accredited by the Engineers' Council for Professional Development in 1973. President Jackson, the first alumnus of the College to become its President, provided vigorous and dynamic leadership geared to the task of increasing all of the College's resources and employing them to meet more effectively the rising aspirations of Black Americans and other disadvantaged persons for a richer and more rewarding life. Dr. Jackson served until March 27, 1978, when he was succeeded by Dr. Clyde W. Hall, who at the time of his appointment was serving as Chairman of the Division of Technical Sciences.

Buildings and Grounds

The campus, comprising 136 acres, presents a unique setting of natural beauty. Among its 43 buildings are three that were constructed during the administration of Major Richard R. Wright: Meldrim Hall, constructed in 1896 but rebuilt in 1926 after it had been burned down; Hill Hall (1901), and Hammond Hall (1915), both of which have been extensively renovated in recent years. Meldrim Hall now houses most of the administrative offices; Hill Hall is occupied by most of the Federal Programs and Extended Services; and Hammond Hall is the present site of the Department of Home Economics.

W. K. Payne Hall, a two-story, air-conditioned building is a main classroom building. In addition to its fifteen classrooms, it also provides office space for thirty-two instructors (including four departmental offices), data processing facilities, a secretarial center, a language laboratory, a reading clinic and the Learning Resource Center. Most of the classes in the English, Social Sciences, Modern Languages, and Special Studies Departments are held in this facility.

Other classroom buildings, and the Departments that each house are Herty Hall (1937)—Mathematics and Physics; Hubert Technical Sciences Center (1960)—Engineering Technology, Industrial Arts and Chemistry; Morgan Hall (1936) and Morgan Hall Annex—Busi-

ness Administration; J. F. Kennedy Fine Arts Center (1967)—Fine Arts; the Griffith-Drew Center for the Natural Sciences (1971)—Biology; and Wiley-Willcox Gymnasium Complex—Physical Education.

Completing the physical facilities of the campus are those buildings used for activities that are auxiliary to the instructional process, those used as student residence halls, and those used to house the maintenance and operational staffs. The Asa H. Gordon Library (1965) provides excellent library facilities, including a media center and an instructional materials center. This air-conditioned structure is a vital intellectual resource for the College and the surrounding community. The Martin Luther King-Varnetta Frazier Student Center Complex (1969) houses the Student Personnel Offices, the College Dining Hall, the Post Office, and most of the offices directly involved in student life and student activities. Adams Hall (1931), formerly used as the dining hall, is now an annex of the Student Center, while Powell Hall, constructed in 1932 as the Laboratory School for the College, is now a Nursery School Kindergarten, and serves as the laboratory for the Early Childhood Education Program. Powell Hall also houses the student-created Ethnic Culture Center.

Three new buildings were completed in 1976. A new library, destined to be the first circular-shaped library in the state, was occupied that year and serves as the hub for the other buildings located on the southern portion of the campus. Adjacent to the new library is the Helen Adele Whiting Educational Center. This building will be shared by the Division of Education and the Division of Business Administration. The third new building is the NROTC Armory located adjacent to the stadium. A portion of this building serves as an athletic field house.

Residence halls include two recently completed ones: Smith-Bowen for women (1971) and Melvin Bostic Men's Residence Hall (1972). Both dormitories are air-conditioned, as are A. E. Peacock Hall (1967) and Lockette Hall (1965). Peacock Hall accommodates 180 men, and Lockette Hall, 180 women. Lester Hall (1965), a dormitory for young women, completes the list of residence halls now used for housing accommodations. Camilla Hubert Hall (1938) is scheduled to be converted to married student housing. Wright Hall (1951), a former dormitory, is being utilized to provide additional academic and administrative office space. The studio for FM radio station WHCJ is also in Wright Hall.

Most of the plant operations are directed from the Medgar Evers Plant Operations Complex, a modern facility that houses the main offices for Plant Operations and the College Warehouse. Housekeeping services are now housed in the former field house.

PURPOSES AND OBJECTIVES OF THE COLLEGE

Savannah State College, a unit of the University System of Georgia, is a college of Arts and Sciences, Teacher Education, Business Administration, and Engineering Technology.

The College is strongly committed to the general philosophy of formal education which aims at the development of intellectual, vocational, physical, and social competence of the individual student no matter what his future specialty may be. It also realizes that the aim of education is not only to enrich the minds of the students with new knowledge, but also to help them rise to their fullest spiritual and moral stature. In addition, the College acknowledges and accepts a special responsibility to encourage and assist the revolution of rising expectations among disadvantaged Americans. With these factors in view, the College seeks to provide an educational and social environment designed to overcome any motivational and/or educational deficits which the student might have, and then to help the student, whether he be disadvantaged or advantaged, to expand his knowledge, broaden his outlook, and develop his talents and individuality to the end that he can become a creative and active participant in the drama of life.

The College, therefore, has several missions to fulfill. It affords students an opportunity to acquire the kind of education that will enable them to contribute effectively to American society's continuing effort to become more democratic at home and more just in its relations with other members of the world community. It also provides continuing educational and cultural services for the people of Georgia and the larger community. Although emphasis has been placed on teaching and learning with the students at the core, the College also strives to utilize its facilities for the advancement of the welfare of the faculty, staff, and citizens of the immediate community which it serves. Thus, it is cognizant of the need to encourage subsidized institutes in order to upgrade in-service teaching. The College is also aware of the need to motivate faculty-student participation and involvement in community development programs.

Consistent with the above philosophy and purpose, the institution has several major objectives as it strives to cultivate the student's intellectual, artistic, cultural, and physical abilities and to develop his capacity to earn a respectable and responsible position in society.

They are designed to help a student:

1. To gain basic preparation, knowledge, and skills necessary to the satisfaction of his personal needs as well as the needs of home and society.

2. To acquire specialized training in one of the many available areas, and to develop individual talents and intellectual curiosity which are essential to further study and progress.
3. To broaden his understanding and appreciation of his own as well as other cultures.
4. To develop an understanding of mental, emotional, and physical health, and to practice habits that are conducive to sound personal and community health.
5. To acquire a motivation for self improvement, and to attain an awareness of social and civic responsibilities in order to carry out effectively the duties and obligations of good citizenship.

To attain these objectives, the College offers formal instruction organized within seven divisions: Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Military Science. Additionally, in pursuit of these goals, the College:

- A. Selects and upgrades teachers, counselors, personnel workers, and administrative and auxiliary personnel;
- B. Gives students due responsibility in making their own educational decisions with advice of the faculty, through their participation in the government of the College and a program of extra-curricular activities.
- C. Draws upon available intellectual, cultural, and technical resources to enrich the lives of the students.

The total resources of the College are dedicated to the task of promoting the student's mental, physical, and emotional maturity.

COLLEGE PROGRAMS

Graduate Studies

In 1967 the Board of Regents of the University System of Georgia authorized Savannah State College to offer courses and related experiences leading to the degree of Master of Science in Elementary Education. This program was in operation from June 1968 through August 1971, graduating a total of forty-one persons.

Beginning with the Fall Quarter of 1971, Savannah State College joined with its sister institution, Armstrong State College, to develop and operate a more comprehensive joint program of graduate studies. Faculty and other resources of the two schools are utilized

in operating the program. Degrees are awarded jointly, with the Presidents of both institutions signing a specially designed diploma.

The Joint Graduate Program offers instruction leading to the Master of Business Administration and the Master of Business Education degrees, the Master of Education degree in Elementary Education, in Special Education (Behavior Disorders), and in the secondary education disciplines of Biology, Chemistry, English, Mathematics, History, and Political Science.

Complete information on admission requirements, courses, and academic policies may be found in the graduate catalog, which may be obtained by writing the Associate Dean for Graduate Studies either at Savannah State College, Savannah, Georgia 31404, or at Armstrong State College, Savannah, Georgia 31406.

BACCALAUREATE DEGREE PROGRAMS

Bachelor of Arts in History and Political Science

Bachelor of Arts in Social Work

Bachelor of Business Administration in Finance, and in Management and Marketing

Bachelor of Science in Accounting, General Business Administration, Economics, and Office Management

Bachelor of Science in Elementary Education

Bachelor of Science in Education, with majors in the secondary education fields of Biology, Business Education, Chemistry, English, French, Industrial Arts Education, Mathematics, Physics, General Science, Social Studies, Spanish, and Trades and Industrial Education

Bachelor of Science in Education, with majors (K-12) in Art Education, Music Education, and in Health, Physical Education, and Recreation.

Bachelor of Science in Biology, Chemistry and Mathematics

Bachelor of Science in Criminal Justice

Bachelor of Science in Civil Engineering Technology, Mechanical Engineering Technology, and Electronics Engineering Technology

Bachelor of Science in Dietetics and Institutional Management

Bachelor of Science in English Language and Literature

Bachelor of Science in Textiles and Clothing

Bachelor of Science in Social Science

Supplementary Certification Programs¹

Early Childhood Education

Driver Education

Teacher-Librarian

Associate Degree Programs²

Civil Technology

Drafting and Design Technology

Electronics Technology

Mechanical Technology

PREPROFESSIONAL PROGRAMS

Savannah State College offers preprofessional training for persons interested in pursuing such paramedical careers as medical technology, nursing, physical therapy, medical illustration, medical social work, and medical secretary. Preprofessional study is also provided for persons desiring to enter the professions of engineering, law, medicine, veterinary medicine, dentistry, and pharmacy.

GEORGIA INTERN PROGRAM

Students who are enrolled full-time at Savannah State College are eligible to participate in the Georgia Legislative Internship Program. Students selected to participate in the Program are assigned to a legislative office or to legislative committees in either the House or Senate, and work directly under and are responsible to the office head or committee chairman. This first hand experience of observing and participating in the legislative process is considered as part of the student's academic program and the student may receive academic credit for such participation. The program at Savannah State College is under the general direction of the Chairman of the Division of Social Sciences.

EXTENDED SERVICES

Savannah State College, through its Extended Services Program, offers a variety of services to the urban and inner-city communities.

¹These are programs that enable students to complete the certification requirements of the Georgia Department of Education, even though a formal major is not offered.

²Offered in cooperation with the Savannah Area Vocational-Technical School. Students may begin the two-year program at either school.

Extended Services consists of a variety of programs designed to supplement the regular academic program's efforts to meet the growing needs of these constituents.

The DIVISION OF STUDENT SUPPORT AND SPECIAL PROGRAMS, one of the largest Extended Services Programs, embraces three separate components: : TALENT SEARCH, SPECIAL SERVICES, and UPWARD BOUND.

The TALENT SEARCH component is designed to find young persons with exceptional potential and assist in guiding them toward realistic goals. The program focuses on uncovering and developing aptitudes and developing employment potential.

SPECIAL SERVICES offers supportive services to currently enrolled students who need counseling and tutorial assistance. This component seeks to develop student basic skills in reading, mathematics and communication. It also serves to stimulate interest in the general education program of the college as well as developing the self-image of the students served.

The third component, UPWARD BOUND, seeks to help raise the academic and cultural levels of eleventh and twelfth grade pupils who prepare themselves to pursue such work successfully. The Upward Bound Project apprises them of educational opportunities in the form of scholarships and other aids which are open to them.

WASTEWATER TREATMENT

A program to acquaint new personnel and increase the knowledge and skills of experienced operators in Water/Wastewater Treatment Plants. This training will enhance compliance with local, state and federal standards as well as equip the trainee for gainful and stable employment in the Water/Wastewater Treatment occupation.

EMERGENCY SCHOOL AID ACT PROGRAM

Designed to provide the young people and adults of Chatham County a variety of opportunities for both cultural enrichment and improved human relations and communications on an interracial basis. The cultural enrichment program provides music and art instructors and ethnic culture presentations in an effort to encourage self-confidence and pride and community spirit. The human relations and communications aspect of the program services parents, teachers, administrators, community leaders and students in the implementation of methods necessary for enhancing ethnic group understanding.

COMMUNITY PREPAREDNESS CENTER

The Community Preparedness Center's responsibilities are two-fold. First, the Center provides educational workshops to schools, church groups, and social service groups. These workshops are geared to meet the needs of a particular group including such areas as: Pre-Employment Guidance, Legal problems of a general nature, Real Estate, Vocational Rehabilitation Services, Human Resource Services, and Consumer Education.

Secondly, the Center attempts to identify members of the community who show interest in attending college and who possess a strong potential for success but who may be lacking in motivation or current information. This College-Prep area of the Center provides testing, remedial assistance, and general guidance.

CORRESPONDENCE STUDY

In addition to instruction on the campus, Savannah State College is authorized to offer college correspondence courses. Such courses have become recognized sources of public education, reflecting a sense of obligation to those who cannot undertake resident instruction and to those who do not require resident instruction for personal growth and enrichment.

Students registering in correspondence study should meet the minimal requirements of graduation from an accredited high school.

College correspondence study is designed as an auxiliary to regular campus classroom study. The courses follow the same general outline used in the classroom. Study materials and instructors are often the same as those in residence.

Courses completed in this program and courses completed in a similar program at recognized institutions will be accepted for credit toward graduation at Savannah State College under the following conditions:

1. Not more than 45 quarter hours may be earned in correspondence.
2. Not more than 50% of the required courses in the major or minor may be completed in correspondence.
3. Courses in the professional education sequence may not be taken in correspondence study.
4. Courses may not be taken in correspondence study to remove deficiencies earned in residence

5. Correspondence courses may not be taken by students who have completed 135 or more quarter hours.

Students desiring to have correspondence credit counted toward graduation should obtain written permission from the Dean of the College and present this statement to the Correspondence Study Office.

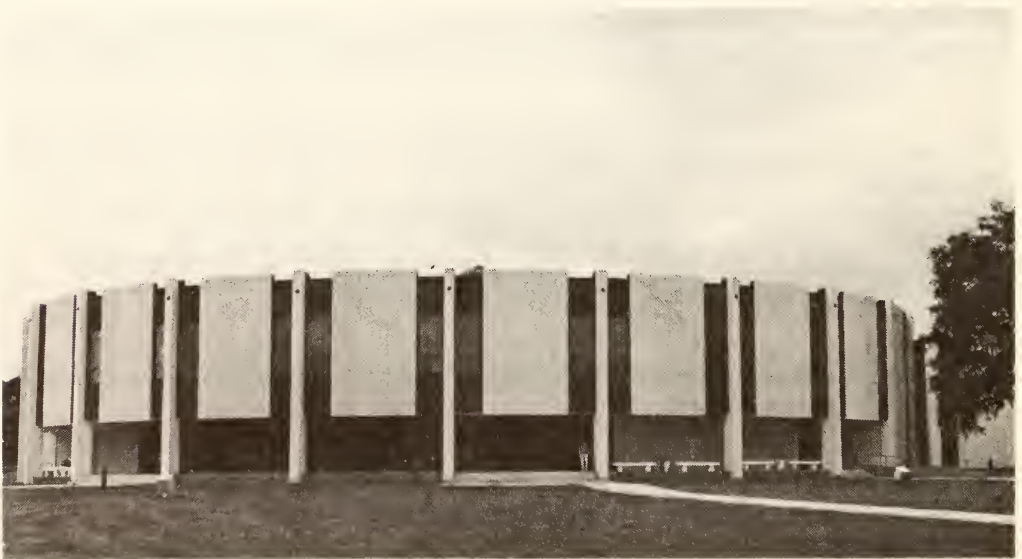
Information concerning courses, credit, fees, examinations, textbooks, etc., may be obtained from:

Correspondence Study Office
Savannah State College
Savannah, Georgia 31404

THE LIBRARY

A modern library with a well-prepared staff serves the college and community. It houses over 102,000 cataloged volumes, approximately 906 periodicals, over 175,000 microforms, and 14,000 bound periodicals. Approximately 8,000 volumes are added yearly to keep the collection up to date. There is an extensive collection of materials by and about Black Americans.

The present library, which provides excellent facilities, was occupied in January of 1977. There are many conference and individual study areas, an a-v department, a curriculum materials center, open stacks, a smoking lounge, a classroom, and typing facilities. The library can house 290,000 volumes. It is easily distinguishable from the other buildings on campus because of its shape. The library is the cultural and intellectual center of the College.



ADMISSION TO THE COLLEGE

GENERAL INFORMATION

A person who wishes to enroll at Savannah State College must file an application form which can be obtained from the Director of Admissions. If the applicant is a high school student he should file his application as early as possible during his senior year. All applications must be filed at least twenty days prior to the date of registration for the quarter in which the applicant plans to enroll. An applicant must furnish evidence indicating that he or she has the ability to do college level work.

Each applicant for admission is required to submit a properly completed application form, a transcript or transcripts of previous academic work, test scores from the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board, and a \$10.00 nonrefundable application fee (application fee will be waived at the request of an authorized person). Transcripts should be mailed directly from the applicant's former schools to the Director of Admissions. Information regarding the Scholastic Aptitude Test may be obtained from high school counselors, any college that is a part of the University System of Georgia, or from the College Entrance Examination Board, Post Office Box 592, Princeton, New Jersey 08540. The applicant should request that his scores be reported to the Director of Admissions, Savannah State College.

REQUIREMENTS FOR REGULAR ADMISSION

To be admitted as a regular degree-seeking student an applicant must meet the conditions specified above and in addition:

1. Must be a graduate of an accredited or approved high school, or he must have completed successfully the General Education Development (GED) Test. Proof of this completion must be verified by the GED certificate;
2. Must have completed satisfactorily 16 units of high school work, distributed as follows: English - 4; Mathematics - 2; History - 2; Biological and Physical Sciences - 2; Social Science - 2; Optional - 4; and
3. Must have taken the Scholastic Aptitude Test, and must have achieved a score of 750 or more on the combined verbal and mathematics sections.

Savannah State College reserves the right to refuse to accept applications at any time when it appears that students already accepted for the quarter for which the applicant wishes to enroll will fill the institution to its maximum capacity. The college also re-

serves the right to reject an applicant who is not a resident of Georgia.

Savannah State College reserves the right to require that any applicant for admission take appropriate intelligence, aptitude, and physical examinations in order to provide information bearing on his ability to pursue successfully courses of study in which he wishes to enroll, and the right to reject any applicant who fails to pass such examinations.

INTERNATIONAL STUDENTS

A student from a country other than the United States who is interested in attending Savannah State College should write to the Director of Admissions, Savannah State College, Savannah, Georgia 31404 U.S.A. The student must meet the following requirements for admission.

1. A completed application for admission with a \$10.00 application fee, which must be in the form of a money order or a certified check.
2. Official transcript(s) of academic record mailed to Admissions Office with an official translation.
3. Scholastic Aptitude Test of the College Entrance Examination Board may be taken at the testing center nearest the applicant's home. The scores must be sent to Savannah State College. If this is impossible, the test may be taken upon arrival at the college.
4. A prospective student must submit evidence of financial ability to pursue his/her education full-time in this country. No financial aid is available for international students. All international students are required to pay out-of-state tuition, unless they are under the sponsorship of an approved local organization. It is required that the student take the Test of English as a Foreign Language (TOEFL) and ask that the results be sent to Savannah State College.

After the completed application form is returned, along with all other necessary materials, the applicant will be sent an I-20 Form. If this I-20 Form is not used for the quarter applied, it must be returned for our records before another can be issued.

There is an International Student Club and an International Student Advisor to assist international students in adjusting to campus life. All international students should confer with the international students' advisor (Dr. K. B. Raut, Room 231, Griffith-Drew Hall) upon arrival on campus.

CONDITIONAL ADMISSION

Applicants for admission whose scores on the combined verbal and mathematics sections of the Scholastic Aptitude Test are less than 750 will be granted Conditional Admission until they have taken the Basic Skills Examination (BSE) in English, Reading, and Mathematics, and have achieved satisfactory scores on each test. Those students whose scores on the BSE are satisfactory will be granted regular admission. The "conditional admission" status will be continued for those students whose scores are unsatisfactory on any one of the BSE components. These students will be referred to the Department of Special Studies, where they will be required to follow a course of study especially designed to assist them in overcoming any deficiencies in knowledge or skills revealed by the test results. They will be granted regular admission status and permitted to take college level courses (except for SOS 114) only after they have achieved passing scores on the Basic Skills Examination.

SPECIAL STUDIES PROGRAM

The Special Studies program is designed for entering students who have demonstrated marked deficiencies in English, Reading, and Mathematics.

A "Special Studies Student" is any student whose score on either of the BSE Tests was lower than the passing score given below. Such students must take all Special Studies courses (courses numbered 99 or below), unless the results of their BSE Tests place them in one of the following categories:

1. *Students who pass both the English and Reading tests but fail the Mathematics test.* These students are only required to take Special Studies Mathematics; they may enroll in any 100 level course except Mathematics or courses having Mathematics as a prerequisite.
2. *Students who pass the Mathematics test but fail either the English or Reading Test.* These students may take 100 level Mathematics courses. All other courses, except for Physical Education Seasonal Activities courses, and Freshman Orientation, must be Special Studies courses.

Special Studies Students will have one academic year in which to demonstrate proficiency in those areas in which they were initially deemed deficient. Such proficiency may be demonstrated by attaining the score on the BSE Tests originally established as the passing score (63 in English, 63 in Reading, 63 in Mathematics). Students who do not demonstrate such proficiency within one year will not be permitted to continue matriculation at Savannah State College unless special approval has been recommended by the Special Studies Department and approved by the academic dean.

ADVANCED PLACEMENT AND CREDIT BY EXAMINATION

Savannah State College gives advanced placement, and in some cases college credit, for college level high school courses, on the basis of the high school teacher's recommendation, the student's grade on the Advanced Placement Examination of the CEEB, and approval by the appropriate department head of Savannah State College.

College credit may be granted for satisfactory scores on the General Examinations of the College-Level Examination Program (CLEP), for satisfactory completion of appropriate courses and tests offered through the United States Armed Forces Institute (USAFI), and for military service schools and experience as recommended by the Commission on Accreditation of Service Experiences of the American Council on Education. Such credits may not exceed more than one-fourth of the work counted toward a degree.

TRANSFER STUDENTS

General policies governing admission of transfer students and acceptance of credit toward advanced standing are as follows:

1. All regulations applicable to students entering college for the first time shall be applicable to students transferring from other colleges, insofar as the regulations are pertinent to the applications of transfer students.
2. A student transferring from another college will supply the Director of Admissions with transcripts of his records at colleges previously attended. These transcripts must be sent directly from the registrars at the previous colleges to the Director of Admissions. The Director of Admissions will determine the applicant's academic qualifications on the basis of these transcripts. An applicant will not be considered for admission unless transcripts of his record show honorable discharge from colleges attended.
3. A student transferring from another college must show that at some time he has taken the College Entrance Examination Board Scholastic Aptitude Test or that he has taken an equivalent test approved by Savannah State College.
4. Transfer applicants must pay a \$10.00 non-refundable application fee.
5. Persons who have earned grades of "C" or higher in courses taken at accredited colleges and who, in the judgment of the Committee on Admissions, have presented otherwise satisfactory credentials may be admitted. Those courses that are equiv-

alent to courses offered at Savannah State College will be accepted toward advanced standing, provided that a grade of "C" or higher was earned. Students transferring from any unit within the University System of Georgia will be credited for courses on the same basis as students originally enrolled at Savannah State College.

6. Credit allowed for hours completed in either extension or correspondence courses shall not exceed 45 quarter hours.
7. A transfer student who has earned excessive credit in freshman and sophomore courses may not be granted credit in excess of 90 quarter hours below the junior class level.
8. The college reserves the right to reject any or all credits from other institutions notwithstanding their accredited status when it determines through investigation or otherwise that the quality of instruction at such institutions is for any reason deficient or unsatisfactory. The judgment of the college on this question shall be final.
9. The evaluation of transfer credit is given a student upon admission. The college reserves the right to disallow transfer credit for courses if a student's subsequent grades in required courses in the same subject fall below average.

TRANSIENT STUDENTS

A student who has taken work in another college may apply for the privilege of temporary registration at Savannah State College. Such a student will ordinarily be one who expects to return to the college in which he was previously enrolled.

The following policies shall govern the admission of students with transient status:

1. The admissions officer of Savannah State College must be furnished evidence that the institution the student previously attended was an accredited or approved institution.
2. An applicant will be accepted as a transient student only when it appears that the applicant's previous academic work is of a satisfactory or superior quality. The Director of Admissions shall have the right to require the applicant to submit a transcript of his previous college work.
3. An applicant for admission as a transient student must present a statement from the dean or registrar of the institution that he last attended recommending his admission as a transient student. A transcript is not normally required.

READMISSION OF FORMER STUDENTS

A student who has not been enrolled at Savannah State for one or more quarters must apply for readmission on a form provided by the Admissions Office. This requirement does not apply to students who do not register for courses during the summer quarter. A former student who has not attended another college since leaving Savannah State may be readmitted provided he is not on suspension at the time he wishes to reenter. A former student who has attended another college since leaving Savannah State must meet requirements for readmission as a transfer student or as a transient student, whichever is applicable. A student who is readmitted after an absence from the College for more than two years must meet degree requirements as listed in the bulletin in effect at the time of his return. An additional application fee is not required.

JOINT ENROLLMENT PROGRAM

Savannah State College in cooperation with the Chatham County Public School System, offers an early admissions program for those students who have completed the eleventh grade in high school and who have demonstrated outstanding academic potential. The student may enroll full-time at the College while remaining on the rolls of his local high school. After successfully meeting all established criteria, the student may be awarded a high school diploma at the end of his freshman year in college. For further information on this program, the prospective applicant should consult his high school counselor and/or request information from the Admissions Office at Savannah State College.

SPECIAL STUDENTS

Persons who desire to enroll in a course or courses but who do not intend to complete a specific degree or other program may register as special students. A total of 45 quarter hours may be taken as a special student. Any special student who decides subsequently to enroll in a regular college program must then satisfy all of the requirements of regular admission.

AUDITORS

Regularly enrolled students at Savannah State College may be permitted to audit courses, provided permission is obtained from the instructor in charge of the course and the Dean of the College. A student auditing the course will not be placed on the rolls and no report will be made to the Registrar.

Members of the faculty or staff of Savannah State College may audit courses, provided permission is obtained from the department concerned and the Registrar.

UNIVERSITY SYSTEM OF GEORGIA RESIDENCY REQUIREMENTS

To be considered a *legal* resident of Georgia, the applicant must establish the following facts to the satisfaction of the Registrar.

1. (a) If a person is 18 years of age or older, he or she may register as a resident student only upon a showing that he or she has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
(b) No emancipated minor or person 18 years of age or older shall be deemed to have gained or acquired in-state residence status for fee purposes while attending any educational institution in this State, in the absence of a clear demonstration that he or she has in fact established legal residence in this state.
2. If a person is under 18 years of age, he or she may register as a resident student only upon a showing that his or her supporting parent or guardian has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
3. A full-time faculty member of the University System and his or her spouse and dependent children may register upon the payment of resident fees even though he or she has not been a legal resident of Georgia for the preceding twelve months.
4. Non-resident graduate students who hold teaching or research assistantships requiring at least one-third time service may register as students in the institution in which they are employed on payment of resident fees.
5. Full-time teachers in the public schools of Georgia and their dependent children may enroll as students in the University System institutions on the payment of resident fees, when such teachers have been legal residents of Georgia for the immediately preceding nine months, were engaged in teaching during such nine month period, and have been employed to teach full-time in the public schools of Georgia during the ensuing school year.
6. All aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under a visa permitting permanent residence shall have the same privilege of qualifying for resident status for fee purposes as a citizen of the United States.
7. Foreign students who attend institutions of the University System under financial sponsorship of civic or religious groups located in this State, may be enrolled upon the payment of

resident fees, provided the number of such foreign students in any one institution does not exceed the quota approved by the Board of Regents for this institution.

8. If the parents or legal guardians of a minor change their legal residence to another state following a period of legal residence in Georgia, the minor may continue to take courses for a period of twelve consecutive months on the payment of resident fees. After the expiration of the twelve month period the student may continue his registration only upon the payment of fees at the non-resident rate.
9. In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as a resident student until the expiration of one year from the date of court appointment, and then only upon proper showing that such appointment was not made to avoid payment of the non-resident fees.

ESTIMATED GENERAL EXPENSES

(For One Quarter)

(All fees are subject to change at the end of any quarter.)

	Day	Nonresident Day	Boarding	Nonresident Boarding
Matriculation	\$145.00	\$145.00	\$145.00	\$145.00
Nonresident Tuition	—	\$238.00	—	\$238.00
Health Fee	\$ 12.00	\$ 12.00	\$ 12.00	\$ 12.00
Student Activity Fee	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Board	—	—	\$200.00	\$200.00
Room	—	—	\$160.00	\$160.00
Laundry	—	—	\$ 17.00	\$ 17.00
TOTALS	\$182.00	\$420.00	\$559.00	\$797.00

*Lester Hall — \$150.00
Private Room — 225.00

1-bedroom apartment (1 or 2 persons) \$430
efficiency apartment (1 or 2 persons) \$345

All fees are due and payable at registration. A cashier's check, bank or postal money order should be made payable to Savannah State College. Checks should be made for the exact amount of the fees. Separate checks should be made for books and supplies and cash allowances. Late fee on the first day is \$5.00 with an additional \$1.00 each day thereafter, not to exceed \$7.00. Resident tuition is \$12.00 per credit hour, with a \$145.00 maximum. Non-resident tuition is \$20.00 per credit hour, with a \$238.00 maximum.

EXPLANATION OF FEES

APPLICATION FEE. A student applying for admission is required to pay a NON-REFUNDABLE application fee of \$10.00. This fee will not be credited toward other expenses. An applicant who fails to enroll for the quarter for which he is accepted must re-apply if he wishes to enter the institution at a later time.

ROOM DEPOSIT. Entering students and continuing students who live in the college dormitories are required to submit a room deposit of \$50.00 with their requests for room assignment. Upon registration, \$25.00 will be credited toward the student's rent for the quarter. The remaining \$25.00 will serve as a damage/room clearance deposit to be refunded upon withdrawal from the college and proper clearance with the housing office. If the student is not accepted by the college, the \$50.00 will be returned in full. An applicant who, after acceptance for admission, decides not to enroll at Savannah State College may be refunded 80% of the \$50.00 deposit by requesting a refund in writing at least twenty days prior to the registration date for the quarter in which accepted. (See Housing Contract for additional information.)

HEALTH FEE. A charge of \$10.00 per quarter is required of each student to finance limited clinical services, bed care in the infirmary for minor illness, and general dispensary care.

LATE REGISTRATION FEE. Students who fail to register on the regular registration day will be charged a late registration fee of \$5.00 for the first day and \$1.00 each for the second and third days, the total not to exceed \$7.00.

GRADUATION FEE. A charge of \$20.00 is made to all undergraduates to cover the cost of diploma and rental of cap and gown which is payable upon filing for graduation. All graduate students must pay \$20.00 to cover cost of diploma, hood and rental of cap and gown. These fees are payable to the Cashier-Comptroller's Office and are not refundable.

MATRICULATION FEE. The charge for matriculation is \$145.00 per quarter for students registering for twelve (12) or more quarter hours. Students registering for less than twelve (12) quarter hours will be charged a matriculation fee at the rate of \$12.00 per quarter hour.

NON-RESIDENT TUITION. Students with residence outside of Georgia, registering for twelve (12) or more quarter hours will be charged non-resident tuition of \$238.00 per quarter.

Students with residence outside of Georgia, registering for less than twelve (12) quarter hours, will be charged non-resident tuition at the rate of \$20.00 per quarter hour.

CAMPUS RESIDENCY POLICY. Effective September, 1, 1975, in accordance with the policies of Savannah State College, all freshman, sophomore, and junior students who are not residents of Chatham County and who are not commuting from their homes outside of Chatham County will be required to reside in the dormitories on the campus of Savannah State College. All students are required to take the Three-Meal Plan.

Students are not required to live on the campus during the summer quarter, but those who elect to live in the dormitories must purchase at least two meals.

MARRIED STUDENTS DORMITORY. Effective the Fall Quarter 1978, a dormitory for legally married students enrolled for at least 10 credit hours will be available for leasing at the following rate: one-bedroom apartment, \$430 per quarter; efficiency, \$345 per quarter.

REFUND OF FEES

Students ill at home or otherwise unable to follow the official procedure for withdrawing, should write or have someone write to the Dean of Students, requesting permission to withdraw.

No refund of fees for any term will be authorized unless the foregoing procedure is completed before the end of such term. The matriculation fee and non-resident fee are subject to the following refund policy which was adopted by the Board of Regents on January 20, 1947:

For students who withdraw during the first 7 days (including the first day of registration) of the quarter, 80% of the fees may be refunded; for students who withdraw during the second 7-day period a refund of 60% will be made; for students who withdraw no later than the end of the third 7-day period following registration, a refund of 40% may be granted; for students who withdraw during the fourth 7-day period following the scheduled registration date, a refund of 20% will be granted. No refund will be made to students who withdraw after the end of the fourth 7-day period following registration. (Only matriculation and non-resident fees will be refunded.)

Room, board and laundry charges will be made through the end of the week during which the student withdraws. A student who wishes to withdraw from the dining hall and dormitories must secure a permit from the personnel dean. This permit when submitted with the dining hall meal book will entitle the student to a refund.

The student activity and health fees are not refundable. In addition, refunds will not be made to students who do not withdraw officially; nor will refunds be given for reduced loads.

All refunds will be processed and mailed to the student within two weeks following the end of the refund period.

FINANCIAL ASSISTANCE

The *COLLEGE WORK-STUDY [CWS] PROGRAM* provides jobs for students who have great financial need and who must earn a part of their educational expenses. You may apply if you are enrolled at least half-time as a Graduate, Undergraduate, or Vocational student in an approved postsecondary educational institution.

Savannah State College, as a participant in College Work Study, arranges jobs on campus or off campus with a public or private non-profit agency, such as a hospital. If you are found to be eligible, you may be employed for as many as 40 hours a week.

In arranging a job and determining how many hours a week you may work under this program, the financial aid officer will take into account: (1) your need for financial assistance; (2) your class schedule; and (3) your health and academic progress. Students who fail to earn satisfactory grades or who reduce their class loads by two-thirds or more without the approval of the Dean of the College will not be eligible for assistance during the ensuing quarter.

Students who plan to apply for part-time work should note carefully:

- 1. No student should attempt to enter Savannah State College unless he is prepared to pay the major part of his total college expenses.*
- 2. All students are required to pay all entrance expenses when they register. Money earned through part-time work may thereafter be credited to the monthly account.*

THE NATIONAL DIRECT STUDENT LOAN (NDSL) PROGRAM is for students who are enrolled at least half-time in a participating post-secondary institution and who need a loan to meet their educational expenses.

Students may borrow a total of: (a) \$2,500 if they are enrolled in a vocational program or have completed less than two years of a program leading to a bachelor's degree; (b) \$5,000 if an undergraduate who has already completed 2 years of study toward a bachelor's degree.

Repayment begins months after the student graduates or leaves school for other reasons. A student may be allowed up to 10 years to pay back the loan. During the repayment period borrowers will be charged 3 percent interest on the unpaid balance of the loan principal.

No payments are required for up to three years for persons who subsequently serve in the Armed Forces, Peace Corps, or VISTA.

Applications should be submitted to the Office of Financial Aid. That Office will provide information about loan cancellation provisions for borrowers who go into certain fields of teaching or specific military duty.

The GUARANTEED STUDENT LOAN PROGRAM enables a student to borrow directly from a bank, credit union, savings and loan association, or other participating lender who is willing to make the educational loan to him/her. The loan is either guaranteed by a State or private nonprofit agency or is insured by the Federal Government.

A student may apply for a loan if he is enrolled or has been accepted for enrollment at least half-time in an eligible college or university, a school of nursing, or a vocational, technical, trade, business, or home study school. You do not need a high school diploma in order to borrow.

The maximum that a student may borrow is \$2,500 a year (in some states it is less). Interest cannot be more than 7 percent.

The total amount that a student may borrow for undergraduate or vocational study is \$7,500. The total is \$10,000 for graduate study alone or in combination with undergraduate study.

To apply for the Federal Interest Benefits, students must submit to the lender a recommendation from their school as to the amount they need to meet educational expenses. If a student qualifies for these benefits, the Federal Government will pay the interest for him until he must begin repaying the principal.

A student who does not qualify for Federal Interest Benefits may still borrow, but will have to pay his own interest from the time he takes out the loan until it is paid off.

All borrowers must submit an AFFIDAVIT that the loan will be used only for educational purposes. It must be signed before a notary or other person authorized to administer oaths.

The LOAN MUST BE REPAYED. Payments begin between 9 and 12 months after a student graduates or leaves school; he may be allowed to take up to 10 years to pay it off. The amount of his payments depends upon the size of his debt; but he must pay at least \$360 a year.

Pickett and Hatcher Educational Fund

This fund was established by the late Mr. Claud Adkins Hatcher of Columbus, Georgia, for the purpose of helping worthy and deserving students in the pursuit of their college education. Applications and additional information may be secured from the Pickett and Hatcher Educational Fund, P.O. Box 2128, Columbus, Georgia.

Law Enforcement Education Program

This program is intended to develop professional law enforcement officers through higher education. It provides educational opportunity through financial aid and is directed to students having the ability and desire to provide professional performance in the criminal justice system.

Two types of financial aid are provided:

1. A loan not to exceed \$1,800 per academic year for full-time study toward a certificate, associate or higher degree in areas directly related to and required in law enforcement; and
2. Grants not to exceed \$200 per quarter for part-time study of degree-creditable courses related to and useful in law enforcement.

Grants are limited to law enforcement officers, and loans are available to full-time students, pre-service or in-service. An eligible officer may also qualify for a loan if he is both a full-time student and a full-time employee.

Students are carefully selected, their sincerity and willingness to pursue careers in criminal justice being taken into consideration.

The SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT [SEOG] PROGRAM is for students of EXCEPTIONAL FINANCIAL NEED who without the grant would be unable to continue their education.

The student is eligible to apply if he is enrolled at least half-time as an UNDERGRADUATE or VOCATIONAL student in an educational institution participating in the program. Graduate students are not eligible.

If he receives an SEOG, it cannot be less than \$200 or more than \$1,500 a year. Normally, an SEOG may be received for up to four years. However, the grant may be received for five years when the course of study requires the extra time. The total that may be awarded is \$4,000 for a four year course of study or \$5,000 for a five year course.

If he is selected for an SEOG, his educational institution must provide him with ADDITIONAL FINANCIAL ASSISTANCE at least equal to the amount of the grant.

The BASIC EDUCATIONAL OPPORTUNITY GRANT PROGRAM [BEOG] makes funds available to eligible students attending approved COLLEGES, COMMUNITY/JUNIOR COLLEGES, VOCATIONAL SCHOOLS, TECHNICAL INSTITUTES, HOSPITAL SCHOOLS OF NURSING, and other post-high school institutions.

To *apply* for a Basic Grant, you must complete a form called "*APPLICATION FOR DETERMINATION OF BASIC GRANT ELIGIBILITY*."

The student may get copies of the application from *postsecondary educational institutions, high schools, Talent Search, Upward Bound projects, and public libraries*, or by writing to P.O. Box 84, Washington, D.C. 20044.

STUDENT LIFE

Savannah State College makes a concerted effort to insure wholesome personal development and growth for those students who reside in its dormitories. Residence halls for men and for women are equipped with essential furniture. Students provide their own bed linen, blankets, towels, bedspreads, and scarves.

Residential life of women students is supervised by the Dean of Students and head residents. Through dormitory clubs, the women students help to plan dormitory activities and participate in developing standards of conduct and determining social regulations for the groups.

Dormitory life for men is supervised by the Dean of Students and the head resident. Practice in democratic living is provided through dormitory organization, enabling the men to work with the staff in planning projects, stimulating achievement, and promoting optimum personal development.

All out-of-town students are required to live in the dormitories and use the dining facilities as long as space is available in the dormitories.

STUDENT CONDUCT

Each student enrolled at Savannah State College is expected at all times to exemplify due respect for order, morality, and the rights of others.

The College reserves the right to exclude at any time any student whose conduct is deemed improper or prejudicial to the welfare of the college community.

RELIGIOUS LIFE

Savannah State College puts great emphasis upon a rich and varied religious life program. Through its religious activities, the College seeks to develop an understanding of and an appreciation for the place of religion in everyday living, to deepen spiritual insight, and to make the practice of religious principles as vital part of the life of the well educated citizen.

The annual New Dimensions in Life Week provides opportunities for religious growth and development under the supervision of the Religious Life Committee.

POLICY ON USE OF DRUGS

The possession or use (without valid medical or dental prescription), manufacture, furnishing, or sale of any narcotic or dangerous drug controlled by federal or Georgia law is prohibited. Violators are subject to arrest and prosecution.

STUDENT PERSONNEL SERVICES

The Dean of Students at Savannah State College is responsible to the President for the over-all administration of the student personnel program.

In the broadest sense, the student personnel program is concerned first with the life of the student outside the classroom. This definition, however, is inadequate, as every person involved in student personnel work at the College, as is true of the faculty and other administrative officers, is deeply interested in the academic work of our students. The intellectual development of the student is and must continue to be the primary objective of Savannah State College.

The rationale for having an effective student personnel program is that among those engaged in the process of learning, the students who are best equipped to gain most from individual study are the ones who have been properly selected for college, are physically and emotionally healthy, are well-adjusted and strongly motivated, are pursuing programs of studies suited to their interests, aptitudes, and abilities, have had minimized their financial and personal problems, have reasonable recreational and social opportunities, and are adequately housed and properly fed.

The purpose of the student personnel program is the establishment of these optimum conditions for each student. It should be noted, however, that these objectives are not exclusively the province of the student personnel staff as the entire faculty and staff are involved in their fulfillment.

The doors of the office and the services of the student personnel staff are never closed to those students who need and seek help.

Orientation

The orientation program is under the supervision of the Office of Student Affairs. It is designed to assist new students in becoming acquainted with other students, with college regulations, with routine procedures, with campus traditions, with the opportunities offered for training here, and with specialized vocational guidance. This program concentrates on all freshman and new students entering the College in the first week of the fall quarter. Students derive from the program their immediate informational needs.

A follow-up course dealing with the psychology of human relationships, required of freshmen and transfer students, is designed to facilitate the process of total adjustment to college and to guide the student's thinking in reference to the social forces that affect him daily.

Counseling and Guidance

A counseling and guidance service is provided for all students through the offices of the Dean of Students and his staff, and the Comprehensive Counseling Program. Professional counseling and services are provided students in the following areas: admissions, scholarships, work aid, health, religious values, social activities, job placement, and general life planning. Advisors in all departments provide counseling for course registration and problems that arise in connection with the academic work and progress of students. The duties of the advisor are to assist the student in selecting subjects, to aid him in interpreting the requirements, to guide him in important matters. In case of any proposed change in his program, a student should consult his advisor, who will judge the reason for the change and make recommendation to the Dean of Faculty. However, a student may not change his major during the registration period, nor during the week before and the week after registration. The responsibility for selection of courses rests, in the final analysis, upon the student. It is the primary duty of the student to meet the requirements of his curriculum. A request from the advisor to the student for conference should be complied with promptly.

Health Services

The college health services are maintained to improve and safeguard the health of students. These services are under the direct supervision of the school physician and the school nurse. Medical examinations, medical care, and health consultations are provided for all students. Harris Infirmary, a modern, eighteen-bed building, is provided for students who require treatment or confinement for minor illnesses.

Veterans Services

The Veterans Counselor is responsible for assisting veterans and dependent children (orphans of veterans) in receiving benefits from

the Veterans Administration. He collects and disseminates information to veterans and dependent children, and counsels with them throughout the year about regulations and directives peculiar to their status.

All the curricula of Savannah State College are fully approved by the Veterans Administration for veterans and dependent children.

Veterans and dependent children are urged to report personally to the Veterans Counselor immediately after their admission to the College.

STUDENT ACTIVITIES

Savannah State College contributes to the attainment of a well-rounded education by providing many opportunities for students to participate in a wide range of significant activities. Through the efforts of organized groups, programs are planned for the social, religious, and cultural advancement of the college community.

Student Government Association

The Student Government Association, composed of representatives of all classes, works with the administration in the governance of the college. It works also with the various campus organizations and sponsors projects for the general welfare of the student body.

Music

The choral society, band, and men's glee club are open for membership to all students interested in music. Grants-in-aid are available in limited amounts for qualified applicants. These groups perform not only locally but also throughout the state and country.

Publications

Students are trained in various phases of publicity by working with the College Press Service.

The *Tiger's Roar*, official student newspaper, is published every six weeks by students under supervision of the Public Relations Office. The college yearbook, *The Tiger*, is a schoolwide student project which is published through the Public Relations Office.

Clubs

A number of organizations provide for expression of student interests: Archonian Club, Association of Women Students, Aurora Club, Art Club, Business Club, Camilla Hubert Hall Council, Chemical Society, College Playhouse, Creative Dance Group, Crescent Club, English Club, French Club, German Club, Home Economics Club, Ivy Leaf Club, Lampodas Club, Marshal Board, Newtonian Society,

Physical Education Majors Club, Pyramid Club, Scrollers Club, Social Science Club, Spanish Club, Sphinx Club, Student Loan Association, Student Georgia Association of Education, Technical Science Association, and Wright Hall Council.

Honor Societies, Fraternities, and Sororities

In addition to Kappa Delta Pi, the national honor societies, Alpha Kappa Mu, Beta Kappa Chi, and Sigma Tau Delta, have chapters on the campus and hold membership in the Association of College Honor Societies.

The national social fraternities organized on the campus include Alpha Phi Alpha, Alpha Phi Gamma (journalism), Alpha Phi Omega (service), Kappa Alpha Psi, Phi Beta Sigma, and Omega Psi Phi.

The national social sororities organized on the campus are Alpha Kappa Alpha, Sigma Gamma Rho, Zeta Phi Beta, and Delta Sigma Theta.

The organizations sponsor rich and varied programs designed for the intellectual and social development of all who take part.

Recreation and Sports

The Department of Health, Physical Education, and Recreation conducts a well-rounded intramural athletic program of seasonal activities for men and for women. Utilizing group games and various sports for their full educational and health values, the program features football, basketball, track and field, tennis, golf, baseball, softball, volley-ball, field hockey, badminton, and swimming.

A member of the Southeastern Intercollegiate Athletic Conference, Savannah State College maintains competition in all sports sponsored by the conference. Savannah State College also holds membership in two national athletic associations, NCAA and NAIA.

Qualified instructors in the Department of Health, Physical Education, and Recreation provide training in the several aspects of the required activity program. Recreational activities, social dancing, swimming and free exercise activities are encouraged and centered in this area. The department makes every effort to provide wholesome recreational activities for all students.

Cultural Activities

To complement formal education on the campus, the College provides many activities for cultural enrichment. Student assemblies, institutes, motion pictures, lectures, art exhibitions, drama, forums, hobby groups, and tours contribute to the general enrichment of the college community.

The Committee on Campus Life brings to the campus renowned concert artists. All students are encouraged to attend these formal activities which afford inspiring association with outstanding personalities.

The Department of Fine Arts sponsors several musical programs and art exhibitions during the school year. The Christmas and Spring Concerts, together with the annual Fine Arts Festival celebrating National Music Week during the first week in May, are significant events in the cultural program of the College.



ACADEMIC REGULATIONS

ACADEMIC ADVISEMENT

Each student at Savannah State College is assigned an advisor who has the responsibility of assisting the student in planning and completing an appropriate academic program. The Dean of the College provides general direction to the advisement program, with division chairpersons and department heads coordinating activities within their respective areas, assigning advisors to students majoring in the academic discipline(s) for which the division or department is responsible. The Director of the Comprehensive Counselling Center assigns advisors from his staff to those students who are undecided about the discipline in which they will major. Each student is required to plan his or her academic program with the advisor's assistance, and to obtain the advisor's approval of his schedule of courses each Quarter. Each advisor has the responsibility of counselling with his advisees about the appropriateness of the academic program they have selected as well as the appropriateness of the schedules of courses selected by the advisee to the timely completion of that program. In addition, the advisor has the responsibility of monitoring the academic progress of his advisees, and of assisting them in evaluating their progress and in making decisions about their present and future academic careers based upon that evaluation.

Advisors of junior and senior students will concern themselves specifically with the student's progress toward graduation, maintaining a continually updated record of courses taken and grades received. The advisor will also assist his advisees in completing the Application for Graduation, and will certify to the Registrar that all requirements had been met up to the time that the Application was prepared.

CLASS ATTENDANCE

In classroom exercises and in laboratory and other class related activities, Savannah State College endeavors to provide optimum conditions for student learning. Class attendance is therefore required of all students in order to ensure that they will have at least been exposed to the many opportunities that are provided for their benefit. It is recognized, however, that extenuating circumstances may at times make it difficult for students to meet this requirement. The following exceptions are provided to take care of such contingencies. Any student is allowed unexcused absences equal to the number of credit hours that a particular course carries. In addition, excused absences may be granted by the head of the department in which the student is majoring, in circumstances involving personal illness or injury, or the illness or death of a close relative. Students who exceed the allowable number of unexcused absences in any course will receive the grade of F in that course.

STUDENT LOAD

Under ordinary circumstances a student may enroll in courses up to but not in excess of eighteen (18) quarter hours. Exceptions may be made for students who are within two quarters of graduation, provided that total hours carried for credit do not exceed twenty-one (21). Credit for an overload will not be granted, however, unless it has been recommended by the student's advisor and approved by the Dean of the College.

THE GRADING SYSTEM

The college uses letters to indicate quality of academic work. A is the highest grade; D the lowest passing grade. Grade distinctions and quality point values are:

Grade	Meaning	Quality Point Value
A	Excellent	4 per credit hour
B	Good	3 per credit hour
C	Average	2 per credit hour
D	Poor	1 per credit hour
F	Failure	0 per credit hour
WF	Withdrew, failing	0 per credit hour

The grade "F" indicates that the student has failed to meet the minimum requirements of the course.

All courses in the major, minor, professional education or freshman English in which the grade of D is earned must be repeated. The grade of D, like higher grades, can be raised only by repeating the course in which the D was earned.

The following grades also used, but are not included in the determination of the grade point average.

I (Incomplete)—This symbol indicates that a student was doing satisfactory work, but for non-academic reasons beyond his control, was unable to meet the requirements of the course. The student may remove the I by completing the remaining requirements within three quarters of residence; otherwise the grade of I will be changed to the grade of F by the Registrar. It is the student's responsibility to initiate the completion of unfulfilled requirements with the instructor.

W (Withdrawal)—This symbol indicates that a student was permitted to withdraw without penalty. Withdrawals without penalty will not be permitted after the mid-point of the total grading period (including final examinations), except in cases of hardship as determined by the Dean of the College.

In order to obtain a grade of W, the student must have withdrawn formally by filing the appropriate forms with the Registrar, who in turn will notify the instructor, listing the date on which the withdrawal occurred.

S (Satisfactory)—This symbol indicates that credit has been given for completion of degree requirements other than course work. The use of this symbol is approved for thesis hours, student teaching, clinical practicum, and internship.

U (Unsatisfactory)—This indicates that an unsuccessful effort was made in one of the above categories.

V (Audit)—This symbol indicates that a student was given permission to audit the course. Students may not transfer from audit to credit or vice versa.

K (Credit)—This symbol indicates that a student was given credit for the course via a credit—by examination program approved by his department.

REPORTING OF GRADES

At Mid-Quarter, and at the end of each quarter each faculty member submits to the Office of the Registrar the Grade Reports for each of his classes. These Reports are prepared in multiple copies, with copies for the Registrar, the Dean of the College, the Department head, and the Instructor. In addition, each student receives a Grade Report at the end of each quarter containing the grades and credit hours earned in each course in which he was enrolled, his grade-point average for the quarter, and his cumulative grade-point average.

Mid-quarter grade reports contain grades for students whose work in a course is below the C level at mid-quarter. The Office of the Registrar sends copies of such reports to the students, their parents or guardian(s), and to the department heads.

CHANGES IN GRADES

Once a grade has been reported to the Registrar it can be changed only under the following conditions:

1. Upon presentation to the Dean of the College of conclusive, documentary evidence that the grade was reported in error;
2. By following the procedure for removal of an I (incomplete) grade; or
3. Upon the recommendation by a committee appointed to conduct a hearing of a student's challenge of a grade, and the acceptance of that recommendation by the Dean of the College.

GRADE CHALLENGES BY STUDENTS

A student who feels that he has received an unfair grade in any course may challenge that grade by writing a letter of appeal to the head of the department in which the course was offered. Upon receipt of an appeal letter the department head consults with the instructor, either with or without the student, in an effort to effect a resolution. If a resolution satisfactory to the student is not effected, the department head appoints a Review Committee (exclusive of both the department head and the instructor.) The Review Committee, after hearing both the instructor and the student, with each having the right to question the other, submits its report and recommendation to the Dean of the College (through the department head.) If the Dean accepts the Review Committee's recommendation that the grade be changed or if he reverses a recommendation that a grade not be changed, he directs the Registrar to make the appropriate change on the student's record.

CALCULATING THE CUMULATIVE AVERAGE

The cumulative grade point average will be calculated by dividing the number of hours in all courses attempted in which a grade of A, B, C, D, F, or WF has been received into the number of grade points earned. The cumulative grade point average will be recorded on the student's permanent record. Institutional credit shall in no way affect the cumulative grade point average.

RECOGNITION OF EXCELLENCE IN SCHOLARSHIP

Persons who have not been subject to disciplinary action while earning superior grades, and who likewise, have not incurred any academic deficiencies, are eligible for honors status as here indicated:

1. Students who maintain an average of B in not less than a normal load during a given quarter are eligible for listing on the Honor Roll.
2. Students who maintain an average of 3.50 or higher, in a full program in a quarter will have their names placed on the Dean's List for that quarter.
3. Students who maintain an average of 3.00 during any quarter may secure permission to take additional hours during the following quarter, the total not to exceed twenty hours. Additionally, students whose general average is 3.00 or better may be permitted to take quarter hours in excess of a normal load up to a limit of 20 quarter hours.

GRADUATION HONORS

Graduation with honors is based upon completion of a minimum attendance period of six quarters and completion of at least ninety

quarter hours at Savannah State College. In addition, students who graduate with honors must attain the following grade-point averages for the entire period of college attendance:

Cum Laude	3.00
Magna Cum Laude	3.40
Summa Cum Laude	3.75

ACADEMIC PROBATION, SUSPENSION, AND DISMISSAL

Savannah State College is operated for students who demonstrate seriousness of purpose and ability and disposition to profit by college work. Students who fail to fulfill the scholarship requirements of the institution are subject to scholastic discipline. At the end of each quarter the Office of the Registrar computes cumulative grade-point averages in order to determine the academic standing of all students in residence. At that time the Registrar shall notify the Dean of the College prior to notification of students and their parents or guardians of the academic probation, suspension, or dismissal of students. In addition, he shall notify other appropriate personnel of this action.

1. Any student who earns a D or F in English 107, 108, or 109 or in any course required in his/her major, minor, or professional education sequence must repeat the course during the next quarter that it is offered.
2. Freshman (0-45 hours) or transfer students who fail to achieve a cumulative average of at least 1.00 after one quarter of residence will not be permitted to enroll during the succeeding quarter.
3. Students in the regular college program who fail to achieve or maintain a cumulative average of 2.00 will be placed on academic probation.
4. A student on probation (1) may not register for less than ten hours if resident student (five hours if commuting student) and not more than thirteen hours; (2) must repeat all courses in which he earned the grade of F that are prescribed in his curriculum and all courses in his major and minor concentration and Freshman English in which he earned the grade of D; (3) must report to his academic advisor for counseling immediately after being notified of his probationary status, and (4) will not be permitted to represent the College or hold office in any college organization.
5. A student on probation whose cumulative average decreases will not be permitted to register the succeeding quarter.

6. A student who does not remove his probationary status within two quarters will be suspended for one quarter unless he/she achieves a 2.50 average during the second quarter of the probation period. Thereafter, the probation will be continued, without suspension, so long as the student continues to make a 2.50 average for each quarter that he/she is enrolled.
7. Any student who fails all of his classes during a given quarter, or who withdraws from all of his classes without an approved withdrawal from the college, will not be permitted to enroll for the succeeding quarter.
8. A student who has been suspended for academic reasons *may be readmitted* when he/she has complied with the following procedures:
 - a. Submission of an Application for Readmission at least thirty (30) days prior to the beginning of the quarter that he expects to return;
 - b. Submission of evidence of increased motivation and maturity;
 - c. Passing of a readmission test.

The College reserves the right to deny admission to any student who has been suspended for academic reasons.

9. Applications for Readmission are considered by the Committee on Admission on the basis of detailed information concerning the cause of failure, academic goals, entrance tests, college grades previously earned, length of absence, motivation, outside commitments, and recommendations from appropriate personnel.
10. A student who has been readmitted will be allowed three quarters to remove his probationary status; however, if he maintains a minimum grade point average of 2.50 each quarter of his probationary period, his probation may be extended. *Failure to fulfill these conditions will result in dismissal.* One calendar year after dismissal, a student may petition the Academic Council of the College for readmission if he can convincingly demonstrate that he has had a change of attitude toward his academic responsibilities; however, the student should understand that such permission is rarely granted.

WITHDRAWING FROM COLLEGE

Students at Savannah State College are regarded as young adults who are capable of making mature decisions, with minimum coun-

selling, about their educational plans. Accordingly, any student who feels that circumstances require his withdrawal from the College may do so by filing the appropriate forms in the office of the Dean of Students. The Dean of Students will counsel with the student in an effort to determine whether the circumstances are such that the College can provide a remedy which will make it possible for the student to remain in school. If such remedy cannot be afforded, the Dean of Students, or his designated representative, will formally approve the request for withdrawal and forward the appropriate forms to the offices of the Dean of the College, the Registrar, and the Comptroller.

Students not able to follow this procedure should write or have a representative write to the Dean of Students, requesting permission to withdraw. Students who withdraw without giving formal notice will forfeit claims for any refunds.



Teresa Merritt, star of TV show "That's My Mama," signs autographs following appearance at the college.

GENERAL REQUIREMENTS FOR THE BACCALAUREATE DEGREE

1. A minimum of 185 quarter hours, including health, physical education, and orientation.
2. A scholastic average of "C" or higher.
3. Satisfactory completion of the minimum requirements of the Core Curriculum as outlined for Area I, II, and III and in the specific degree programs for Area IV.
4. Satisfactory completion of the University System of Georgia Language Skills (Rising Junior) Examination.
5. A prescribed divisional or departmental major (such as business administration, chemistry, education, or engineering technology) or a major of at least 45 hours in one department and a minor of 30 hours in another department, with no grade below "C" in major, minor, or special subject requirements. Certain major courses must be taken in residence at this College.
6. Residence of at least one year at Savannah State College. Students who entered the college in September 1955 and thereafter are required to spend the senior year in residence.
7. Satisfactory completion of the major comprehensive examination as prescribed by the specific department in which the student is majoring.
8. Completion of all of the above requirements within eight calendar years. The College reserves the right to allow exceptions to the requirement when recommended by the head of the department in which the student is majoring.
9. Submission of a formal application for the degree to the Office of the Registrar in accordance with the time schedule listed in the College Calendar.

REGENTS EXAMINATION

To be eligible for graduation, all students enrolled in degree programs are required by the University System to successfully complete a test of competence in the areas of reading and writing Standard English. A student is eligible to take the Regents Examination* after having completed 45 hours. No student may delay taking the test later than the quarter after he has completed his 75th credit hour. Transfer students who have not successfully completed the test must do so at their earliest opportunity.

Students who fail the Regents Examination* must enroll in English 092 during their next quarter of enrollment. They may not take the Examination again until they have completed the course, *and must take the course each subsequent quarter until they pass the Examination.*

Students who have not passed the Regents Examination by the time they have earned one hundred twenty (120) quarter hours in college level course work will not be permitted to enroll in any additional classes except remedial English. These classes will be designated *English 093*, in contrast to the classes for students who have not completed 120 hours. These will continue to be labeled English 092. Such students may not sit for the Regents Examination until they have completed one quarter in English 093. They may not sit for any additional administrations of the Regents Examination until they have completed an additional quarter of English 093.

Students who, by September, 1977, have already earned one hundred twenty (120) degree credit hours and have not passed the Regents Examination, will be permitted to enroll in only fifteen hours of course work, including English 093, until they pass the Regents Examination. *After three quarters of enrollment*, these students will not be permitted to enroll in any classes except English 093, English 093 will be carried as the equivalent of five (5) quarter hours, but will be a non-credit course.

Students who, by September, 1977, have already earned more than ninety but less than one hundred twenty degree credit hours without having passed the Regents Examination, will be allowed three additional quarters of enrollment, provided that the total accumulated hours do not exceed one hundred fifty (150).

*Originally called the Rising Junior Examination.

CORE CURRICULUM

AREA I — HUMANITIES 20 HOURS REQUIRED

Courses	Hours
English 107-108-109	15
Humanities 232	5

AREA II — MATHEMATICS AND NATURAL SCIENCE 20 HOURS REQUIRED

Courses	Hours
Mathematics 107, 108, 110	5-10
One ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	10
Chemistry 101-102	
Physics 201-202 or 201-203	
Physical Science 203-204	5-10

AREA III — SOCIAL SCIENCE 20 HOURS REQUIRED

Courses	Hours
History 101-102	5-10
Political Science 200-201	5
Social Science 111-201 or	
Economics 201	5
History 200-201	5

AREA IV — COURSES APPROPRIATE TO THE MAJOR 30 HOURS REQUIRED

Courses in this area are listed under the curricula of the respective Divisions and Departments of the College.

ADDITIONAL REQUIREMENTS

Courses	Hours
Physical Education	6
Social Science 114	1

DIVISION OF BUSINESS ADMINISTRATION

MARY CLAY TORIAN, *Chairperson*

Hayward S. Anderson
Albertha E. Boston
O. Carver Byrd
Johnny Campbell
J. Dennis Chasse
Bobby Davis
Jeraline D. Harven
Arthur T. Kolgaklis

Arthur Levy
Robert McKellar
Warren Mitchell
Herbert A. O'Keefe, Jr.
Gloria Revely
R. B. Singh
Charlease Stevenson
*Willie M. Waddell

The main purpose of the Division of Business Administration is to provide for students a sound educational foundation for socially effective and gainful employment in the business world. Specifically, through curricular offerings, supervised work experience, cocurricular activities, and individual counseling for careful selection of courses in accordance with student aptitudes and interests, the Division prepares students for:

1. Employment as accountants, administrative level secretaries, salesmen, and for mid-management positions in business;
2. Operation, management, and ownership of business enterprises;
3. Teaching business subjects in the secondary school;
4. Employment in the hospitality industry and industrial management;
5. Further study in accounting, business economics, general business, business education, and other specialized areas in business.

To realize these aims, the Division offers courses leading to the degree of Bachelor of Business Administration, and a terminal program leading to a certificate of proficiency in various phases of office administration and the hospitality industry.

DEGREE PROGRAMS

A student in business administration may pursue a major in one of six general areas: (1) accounting, (2) general business administration, (3) economics, (4) office administration, (5) finance or (6) marketing management. Persons desiring to become certified as teachers of business subjects on the secondary level will major in Office Administration, and will complete professional education courses in

the Division of Education as a minor, inasmuch as they must also meet requirements set by the Georgia State Department of Teacher Education and Certification.

INTER-COLLEGIATE COOPERATIVE PROGRAMS. Through cooperative interchange with Armstrong State College, it is possible for a business major to complete requirements for specializations in marketing and finance, and a wider variety of restricted electives in accounting, general business administration, finance, and economics is available. A student is permitted to take courses at Armstrong on a fee-free basis as long as the total number of hours does not exceed the maximum load per quarter.

TYPEWRITING PROFICIENCY. While proficiency in typewriting is required for all majors, registration in a formal course in typewriting is not required of any major specialization area except business education and office administration. Satisfaction of such proficiency may be ascertained through a typewriting test. To prepare for the proficiency test requirements (a minimum of 30 words per minute.), a student may elect to register for one or more courses in typewriting as a part of his free electives. Certification of typewriting proficiency shall be filed with the Registrar. Credit hours, however, shall not be awarded unless the student is officially enrolled in a formal course.

ACADEMIC COUNSELING. Students undertaking work toward a degree in the Division obtain contractual programs of work upon entrance to the Division at the beginning of the Sophomore year. This document lists requirements, optional electives, and blocks of courses in the major area of specialization from which the student may select to fulfill requirements for graduation. The curriculum contract is used as a guide for counseling and at each registration period until graduation. A copy is maintained in the student's personnel folder in the Division; one copy is filed with the Registrar; and one is retained by the student. Inasmuch as there are broad areas of electives, both restricted and non-restricted, it is essential that the student seek counseling and observe the sequential arrangement of requirements before selecting courses for periodic registration.

The Division Chairman is general adviser to all students in the Division of Business Administration, and special academic advisers are assigned to each student upon entrance to the Division on the basis of specialization areas and freedom of choice by the student.

At the beginning of the Senior year, when the student acquires 135 quarter hours, he files an application for the degree with the Registrar, duly approved by the Division Chairman, and includes a listing of courses completed, grades and quality points earned, a

record of all other college requirements, and the date of expected graduation.

COOPERATIVES AND INTERNSHIPS. The Division encourages students to obtain work experiences in the areas of vocational choices during the formal four-year program. Several opportunities are available through the Division: (1) In cooperation with accounting firms, the Winter Quarter Full-Time Internship experience is available to majors in accounting in the Junior and/or Senior years; (2) The U.S. Department of Navy Cooperative Program for Civilian work assignments is available to all majors with the completion of the Freshman year (a minimum of 36 weeks is required on the job, but may be broken into two or four periods, with the student returning to school every other quarter or every six months); (3) Summer Internships with AEC, BLS, Internal Revenue Service, and other Government Agencies are available through application and interview; (4) Internships in Accounting are available with Union Camp Company; and (5) the College Work-Study Program provides opportunities with non-profit agencies in the city and on campus.

ACCOUNTING — BUSINESS ADMINISTRATION — ECONOMICS — FINANCE — MARKETING-MANAGEMENT OFFICE ADMINISTRATION

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements — 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-110	10 hours
Ten hour laboratory sequence from the following: .	10 hours
Biology 123-124	
Chemistry 101-102	
Physics 201-202 (Required for NROTC Students)	
Physical Science 203-204	

Area III — Social Science: 20 hours required

History 101 or 102	5 hours
Political Science 200	5 hours
History 200	5 hours
Social Science 201	5 hours

Area IV — Courses Appropriate to the Major: 31 hours required

Accounting 201-202	10 hours
Economics 201-202	10 hours
Business Administration 105-201-225	11 hours

Additional Requirements	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULA:
 Requirements: 97 quarter hours each area.

ACCOUNTING

Major Requirements: 75 hours as specified	
Accounting 203-301-302-303-325-405-440-450	40 hours
Economics 331-332	10 hours
Business Administration 317-340-360-407-465	25 hours
Restricted Electives	18 hours

BUSINESS ADMINISTRATION

Major Requirements: 70 hours as specified	
Business Administration 317-323-340-341-360, 407-409-410-465	45 hours
Accounting 203	5 hours
Economics 331-332-401	15 hours
BAD 300 or MAT 250 (Programming)	5 hours
Restricted Electives	18 hours
Free Electives	9 hours

ECONOMICS

Major Requirements: 60 hours as specified	
Business Administration 317-340-360-407-465	25 hours
Economics 305-306-323-331-332-401	30 hours
Accounting 203	5 hours
Restricted Electives	28 hours
Free Electives	9 hours

FINANCE

Major Requirements: 70 hours as specified	
Business Administration 317-323-340-360-400-407, 409-410-465	45 hours
Accounting 203-325 or 405	10 hours
Economics 331-332-403	15 hours
Restricted Electives	27 hours
Electives in Finance —	10 hours
Other Electives —	17 hours

MANAGEMENT-MARKETING

Major Requirements: 65 hours as specified

Business Administration 317-323-340-350,

407-409-410-465 45 hours

Economics 331-332-401 15 hours

Accounting 203 5 hours

Restricted Electives 32 hours

OFFICE ADMINISTRATION

Major Requirements: 82 hours as specified

Business Administration 317-323-340-360-407-465 ... 30 hours

Office Administration 301-302-311-312-313 or (Mgmt)

412-413-425-426 42 hours

Economics 300-331-332-412 10 hours

Electives 15 hours

MINOR PROGRAMS

(30 hours required)

Economics	Accounting	Business Admin.	Office Adm.
*ECO 201 - 5	*ACC 201 - 5	*ECO 201 - 5	*OAD 201 - 2
*ECO 202 - 5	*ACC 202 - 5	ECO 202 - 5	*OAD 202 - 2
ECO 302 - 5	*ACC 203 - 5	BAD 317 - 5	*OAD 203 - 2
*ECO 323 - 5	*ACC 301 - 5	*BAD 340 - 5	OAD 311 - 3
ECO 331 - 3	ACC 302 - 5	BAD 323 - 5	OAD 312 - 3
ECO 332 - 3	ACC 325 - 5	*BAD 360 - 5	OAD 313 - 3
*ECO 401 - 5	ACC 405 - 5	BAD 303 - 5	*OAD 301 - 3
ECO 317 - 5	ACC 440 - 5	*ECO 331 - 5	OAD 401 - 3
		BAD 318 - 5	OAD 302 - 4
		*BAD 201 - 5	OAD 425 - 5
			*OAD 300 - 5

CERTIFICATE PROGRAM

In addition to the degree programs, the Division of Business Administration offers a terminal secretarial science course for students who do not find it convenient to remain in college for four years. Through intensive study and concentrated effort, such students are enabled to prepare for such positions as typists, stenographers, bookkeepers and file clerks.

Students interested in the two-year program should carefully plan their schedules with the chairman of the Division of Business Administration at the beginning of the first year. All terminal students

*Four courses in each area are required; two additional courses must be elected.

are reminded that, in addition to courses prescribed below, they must satisfy the history and constitution requirements.

Upon satisfactory completion of the program, the student is awarded a certificate of proficiency in secretarial science.

**TWO YEAR
SECRETARIAL SCIENCE CURRICULUM
FIRST YEAR**

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
PED	Activity		1	1
MAT 107-110	College Algebra & Math for Business	5	5	
BAD 105	Introduction for Business			5
ENG 107-108-109	English Communicative Skills	5	5	5
OAD 201-202-203	Typewriting	2	2	2
OAD 311-312-313	Shorthand	3	3	3
		15	16	16

SECOND YEAR

ACC 201-202-203	Principles of Accounting	5	5	5
BAD 225	Business Communications			3
BAD 300	Business Machines			5
BAD 317	Business Law	5		
ECO 201	Principles of Economics		5	
OAD 312	Advanced Typewriting	4		
OAD 412-413	Advanced Shorthand and Transcription	3	3	
OAD 301	Administrative Office Practice			3
BAD 404 or BAD 201	Intro. to Data Processing		4	
		17	16	16

DESCRIPTION OF COURSES

ACCOUNTING (ACC)

201-202. INTRODUCTION TO FINANCIAL ACCOUNTING (5-0-5)¹. An introductory course in college accounting which is designed to give basic knowledge of accounting principles and methodology. Detailed study of the technique and formation of balance sheets, profit and loss statements, ledger accounts, and journals. Prerequisites: A grade of C or better in both MAT 107, 110. *Fall*.

¹(5-0-5) = 5 hours Lecture—0 hours Laboratory—5 hours Credit.

203. INTRODUCTION TO MANAGERIAL ACCOUNTING (5-0-5). An introduction to the accounting principles of partnership, corporations, departmental accounting, branch accounting, accounting controls and taxation. Emphasis on preparation, consolidation, analysis, and interpretation of financial statements and other reports commonly used in modern business establishments. *Winter, Spring.*

301. INTERMEDIATE ACCOUNTING (5-0-5). Theory and practice of accounts are explained by the problem method. The problems are designed to test the student's ability to analyze and interpret a statement of financial facts. Attention is given to the general literature in the field of accounting. Prerequisites: ACC 202-203. *Fall.*

302. INTERMEDIATE ACCOUNTING (5-0-5). Introduction to accounting for investments, funds and reserves. Emphasis on problems of accounting as related to management of business. Prerequisite: ACC 301. *Winter.*

303. ADVANCED ACCOUNTING (5-0-5). An intensive study of corporate accounting, analysis, and evaluation of the structure and use of corporate statements and reports, including consolidated statements. Prerequisite: ACC 302. *Spring.*

325. FEDERAL INCOME TAX PROCEDURE (5-0-5). An analysis of the Federal Income Tax Law and its application to individuals and partnerships. Extensive practical problems; preparation of returns; administration. Prerequisites: ACC 202-203.

405. COST ACCOUNTING (5-0-5). A study of basic cost principles, control of manufacturing cost elements, job-order systems, standard cost and budget, and managerial uses of costs. The course demonstrates that cost accounting for distribution and for management of non-processing business units, and non-profit enterprises is as essential a part of cost accounting as manufacturing costs. Prerequisites: ACC 202, 203. *Winter.*

430. ACCOUNTING FOR NOT-FOR-PROFIT INSTITUTIONS (5-0-5). Basic concepts and techniques of fund accounting for governmental, educational, religious, and charitable organizations. The course will also cover budgeting and management accounting problems of these institutions. Prerequisite: principles of accounting competency.

440. BUSINESS INFORMATION SYSTEMS (5-0-5). Basic computer concepts applied to systems and methods design, data flow analysis, and the development of an understanding of a need for control procedures in a business information system. Prerequisite: ACC 302 or consent of instructor.

450. AUDITING (5-0-5). A study of the balance sheet, audit-including methods of verifying assets, liabilities, capital and income, and expenses. Prerequisite: ACC 303 or consent of instructor. *Spring.*

460-461. CPA REVIEW (5-0-5). An intensive study of the approach to and techniques of solving problems of the type presented on CPA examinations. Problem areas and course material selected from recent uniform CPA examinations. (By permission of the Department of Accounting.)

499. INDEPENDENT STUDY AND RESEARCH IN ACCOUNTING. This course is designed for majors with special problems for research and development and for those who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor and the specific content of the course is directed by the needs of the student. Prerequisite: senior status. *Fall, Winter, Spring [offered upon request]. Credit, one to five quarter hours.*

BUSINESS ADMINISTRATION (BAD)

105. INTRODUCTION TO BUSINESS (5-0-5). A survey of the fundamental facts, ideas, and conception of modern business enterprises. *Spring.*

106. AN ANALYSIS OF TOURISM AND THE HOSPITALITY INDUSTRY (5-0-5). Principles, practices, and philosophies of tourism and hotel, motel, and restaurant management education and training.

201. PRINCIPLES OF DATA PROCESSING (3-0-3). A concepts course on modern methods of processing data as related to business; includes the use of computers and unit record systems as facilitating units for the accurate recording and reporting of data.

225. BUSINESS COMMUNICATIONS (3-0-3). The application of basic principles of English grammar, basic report writing, and research techniques to presentations and written communications as demanded in business. The role of written communication in relation to new media enters into the consideration given to communication theory. Prerequisite: ENG 109. *Spring, Summer.*

300. BUSINESS MACHINES (1-8-5). Designed to familiarize the student with different types of machines used in various offices, and to develop a reasonable degree of skill in the operation of a few of these office machines.

304. SALESMANSHIP AND SALES MANAGEMENT (5-0-5). A study of personal selling; types of customers; problems of administration; and the selection, training, compensation and management of sales forces. Prerequisite: BAD 340.

306. RETAILING (5-0-5). Principles and practices of buying, advertising, selling, and store management as applied to business enterprises. Prerequisites: BAD 325, ACC 201.

307. PRINCIPLES OF INSURANCE (5-0-5). The theory of insurance and current insurance practices. Uses of insurance, types of insurance, organization types, policies, mortality, etc.

311/211. COOPERATIVE EDUCATION WORK EXPERIENCE (1-40-5). Student works full-time in Business and Industry under the supervision of the Director of Cooperative Education. Each course has specific written clock hour requirements. *Credit, one to five quarter hours per course. Maximum credit, fifteen quarter hours.*

317-318. BUSINESS LAW (5-0-5). Contracts: their formation, performance rights, and remedies; agencies, sales and their execution; forms and legal effect of negotiable instruments; rights and liabilities of parties to contracts.

323. MONEY, CREDIT AND BANKING (5-0-5). The principles of money and banking with special reference to their functions. Money and its attendant economic problems; credit; the banking process and the banking system; foreign and domestic exchange; the business cycle; history of banking. (Same as ECO 323.)

340. PRINCIPLES OF MARKETING (5-0-5). [*Formerly 325*] The distribution of goods and services from producer to consumers; market methods employed in assembling, transporting, storage, sales, and risk taking; analysis of the commodity, brands, sales methods and management; advertising plans and media. Prerequisite: ECO 201.

341. MARKETING-MANAGEMENT (5-0-5). Management of marketing organizations, with emphasis on planning, organizing and controlling the marketing organizations; internal and external communications; marketing management decision-making. Prerequisites: BAD 340-360. *Spring*.

342. MARKETING OF HOSPITALITY SERVICES (5-0-5). Marketing of Hospitality Services, Food, Lodging, and Travel as a competitive force.

360. BUSINESS ORGANIZATION AND MANAGEMENT (5-0-5). [*Formerly 415*] A comprehensive study of principles of business organization and management. Emphasis is placed upon reports by students in which they collect data and make analyses necessary for organizing a business of their own choosing. *Fall*.

403. ADVERTISING (5-0-5). Uses and limitations of advertising as a tool of management; and as a factor in the "marketing mix" of

an organization; the sales process and psychological objectives of advertising, copywriting, and layout design; types of advertising media; criteria for selection of specific media. Prerequisite: BAD 325.

404. REAL ESTATE (5-0-5). This course covers a wide range of basic subject areas relating to rules, regulations, practices, and laws governing the purchase, development, financing, and conveyance of real estate interests. Specific emphasis is devoted to those phases of real estate activity considered to be of significance in preparing salesmen and brokers for the Georgia Real Estate License Examination.

407. BUSINESS FINANCE (5-0-5). Principles, problems, and practices associated with the financial management of business institutions; nature and types of equity financing; major types of short-term and long-term debt; capitalization; financial statements, working capital requirements, reorganization; bankruptcy; methods of inter-corporate financing. Prerequisite: ECO 331.

409. ADMINISTRATIVE PRACTICE AND INTERNSHIP (2-10-5). One hundred hours of practical work experience are required in offices of Savannah State College and nearby business concerns. In addition, a two-hour weekly seminar is directed toward a study of administrative practices, human relations, and policy development and implementation. By special arrangement, laboratory work may be taken during the summer before the senior year. Off-campus experience is permitted if it is arranged in advance through the Chairman of the Division.

410. ADMINISTRATIVE PRACTICE AND INTERNSHIP (2-10-5). Practical work and seminar requirements are the same as in BAD 409, Administrative Practice and Internship, except that the two-hour weekly seminar is directed toward the completion of a research project in the area of business administration.

411. SMALL BUSINESS ADMINISTRATION (2-6-5). Designed to develop competency in small business management and entrepreneurship. Prerequisite: BAD 407.

412. PERSONNEL MANAGEMENT (5-0-5). The methods and procedures used by business management in recruiting, selecting, and maintaining an efficient work force; nature and use of application form; interviewing techniques; construction and use of service records and job descriptions; job evaluation techniques, grievance procedures; morale and its significance to production.

465. BUSINESS POLICY (5-0-5). The integration of knowledge of the various fields of business, with emphasis on decision making. Case study approach.

499. INDEPENDENT STUDY AND RESEARCH IN BUSINESS ADMINISTRATION. This course is designed for majors with special problems for research and development and for those who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor and the specific content of the course is directed by the needs of the student. Prerequisite: Senior status. [*Offered upon request.*] Credit, one to five quarter hours.

BUSINESS EDUCATION

217. PRINCIPLES OF TEACHING AND BUSINESS SUBJECTS (5-0-5). Historical development of education and education for business. Intensive study of the basic principles of teaching and business education. Initial exploration of potential and planning for teaching credentials. *Fall*.

350. MATERIALS AND METHODS OF TEACHING BUSINESS SUBJECTS (5-0-5). An analysis of specialized methods used in teaching business subjects on the secondary level, from which the student involves personal philosophy to determine teaching procedures. Includes basic principles and curriculum structure of general and vocational business education. Prerequisites: OAD 201, 202, 203, 311, 312.

432. MATERIALS AND METHODS OF TEACHING BOOK-KEEPING AND ACCOUNTING (5-0-5). Techniques of teaching and learning bookkeeping and accounting on the secondary level. The development of special media for teaching these subjects. Prerequisite: ACC 203.

450. VOCATIONAL DEVELOPMENT AND THE TEACHING OF DATA PROCESSING (5-0-5). Systems, program languages, computer operation, and techniques of teaching Data Processing. Prerequisites: MAT 260-261.

499. INDEPENDENT STUDY AND RESEARCH IN BUSINESS EDUCATION. This course is designed for majors with special problems for research and development and for those who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor and the specific content of the course is directed by the needs of the student. Prerequisite: Senior status. [*Offered upon request.*]

ECONOMICS (ECO)

200. INTRODUCTION TO ECONOMIC PRINCIPLES (5-0-5). A one quarter introduction to economic methods and problems concentrated on the development of the intellectual attitudes considered vital to the individual in his role as a responsible and thinking

citizen. The course is not open to business students, nor may it be taken for credit by anyone who has ever earned credit in any previous economics principles course. *Fall, Winter, Spring.*

201. PRINCIPLES OF ECONOMICS I (5-0-5). Basic economic concepts, with emphasis on the role of government; national income and products; business cycles; money and banking; fiscal and monetary policy, and international trade. *Fall, Winter.*

202. PRINCIPLES OF ECONOMICS II (5-0-5). Basic economic concepts continued from 201. Factors of production; supply and demand; determination of prices and of income; monopolies; the problem of economic growth; and comparative economic systems. *Winter, Spring.*

302. CURRENT ECONOMIC PROBLEMS (5-0-5). This course examines in depth the important problems and issues which are constantly arising and affect the smoothness and direction of the American economic system. These include urban economic problems, poverty, inflation, manpower utilization and employment, economic development of "ghetto black capitalism," urban transportation problems, automation, the rate of economic growth, the national budget, consumer credit, income maintenance, and investment trends. Prerequisite: ECO 201.

304. HISTORY OF ECONOMIC THOUGHT (5-0-5). Traces the development of economic doctrines. Contributions of individual writers and schools of thought are examined. Examined are the views of mercantilists, classical economists, neoclassical economists, socialists, and keynesians on such topics as value, distribution, money, and national economic policy. Economic doctrines are related to social issues of a period. Prerequisite: ECO 201.

305. INTERMEDIATE MICRO-ECONOMIC THEORY (5-0-5). Determination of price in terms of the equilibrium of the business enterprise and consumer choices in markets with varying degrees of competition; determination of wages, rent, interest, and profits. Prerequisites: ECO 201, 202.

306. INTERMEDIATE MACRO-ECONOMIC THEORY (5-0-5). The modern theory of the determination of the level and rate of growth of income, employment, output, and the price level. Alternate fiscal and monetary policies to facilitate full employment and economic growth are discussed. Prerequisites: ECO 201, 202.

307. ECONOMIC HISTORY OF THE UNITED STATES (5-0-5). The development of agriculture, industry, commerce, transportation from colonial times to the present; problems raised by economic evolution in the United States. Prerequisite: ECO 201.

323. MONEY, CREDIT, AND BANKING (5-0-5). The principles of money and banking with special reference to their functions; credit; the banking process and the banking system; foreign and domestic exchange, the business cycle; history of banking. Prerequisite: ECO 201.

331. BUSINESS AND ECONOMIC STATISTICS I (5-0-5). [*Formerly Economics 450*] Introduces students to the methods of scientific inquiry and statistical application. The essentials of vocabulary, concepts, and techniques; methods of collecting, analyzing, and treating data; measures of central tendency, correlation and deviation, graphic representation, sampling validity and reliability; time series analysis.

332. QUANTITATIVE ANALYSIS (5-0-5). [*Formerly Business and Economic Statistics II*] Statistical applications and analyses for decision making. Decision making under conditions of risk and uncertainty. Prerequisite: ECO 331.

345. ECONOMIC DEVELOPMENT (5-0-5). An introduction to the economic and social problems confronting developing nations in Africa, Asia, and Latin America. Variables which affect the growth processes are isolated and analyzed. Considerable attention is focused upon the interaction of economic, political, administrative, and social phenomena and their impact on overall development within the nations studied. Limited use of growth models is employed as an alternative method of analysis.

401. LABOR PROBLEMS (5-0-5). Problems confronting labor and capital; legislation and administrative regulations affecting employer and employees. Prerequisite: ECO 201 or consent of instructor.

402. LABOR AND SOCIAL LEGISLATION (5-0-5). [*Formerly Recent Labor Legislation*] A study of legislation designed to provide social and economic protection for men, women, and children. Prerequisites: ECO 202, 401.

403. PUBLIC FINANCE (5-0-5). A study of the effects of taxation upon the economic system; public borrowing and public spending with reference to the present financial system of the United States. Prerequisite: ECO 201.

404. URBAN ECONOMICS (5-0-5). An analysis of urban growth centers and their concomitant problems utilizing the cost-benefit technique of evaluation. Location theory is used to delineate trends in urban growth patterns and activities. Specific urban problems arising from such growth trends as adequate revenue and tax base, human resource utilization, housing and land use, and urban poverty are discussed. Emphasis is placed upon solving such problems in terms of economic efficiency and equity.

405. INTERNATIONAL ECONOMICS (5-0-5). An introduction to the modern theory of international trade, payments mechanism, commercial policy, and economic integration. Prerequisite: ECO 305.

406. COMPARATIVE ECONOMIC SYSTEMS (5-0-5). A comparative study of current economic systems. Prerequisite: Twenty hours of economics or consent of the instructor.

499. INDEPENDENT STUDY AND RESEARCH IN ECONOMICS. This course is designed for majors with special problems for research and development and for those who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor and the specific content of the course is directed by the needs of the student. Prerequisite: Senior status. [*Offered upon request.*]

OFFICE ADMINISTRATION (OAD)

201. ELEMENTARY TYPEWRITING (1-5-2). Introduction to the keyboard and touch typewriting. Emphasizes the proper technique of machine operation and control. Introduces speed and accuracy; attractive arrangement of copy; and simple tabulation. Minimum standard for passing: 30 words per minute on time writings. Students with previous training in this area may waive the elementary course by passing a qualifying examination. *Fall, Winter, Spring.*

202-203. INTERMEDIATE AND ADVANCED TYPEWRITING (1-2-2). Skill development in typewriting. Business letter writing, forms development, intensive tabulation, and formal reports. Minimum passing speeds: 40 words per minute for 202 and 50 words per minute for 203.

300. OFFICE MACHINES (1-6-5). [*Same as BAD 300*] Acquaintanceship, proficiency, and expert levels of development on five basic classes of machines: adding and calculating copy preparation; duplication; keypunching; and transcribing.

301. ADMINISTRATIVE OFFICE PRACTICE (1-2-3). A course dealing with office practice, subject-matter, and procedures commonly used in business offices; laboratory in stenographic methods and office machines. Prerequisites: Shorthand and typing — one year of each.

302. SPEED DEVELOPMENT IN TYPEWRITING (1-4-4). Continued emphasis on mastery of the typewriter. Writing business letters, copying from rough drafts, tabulating complex material, and stenciling. Minimum standard for passing at the end of the course 50 words per minute, continuous copy for ten minutes with a maximum of five errors. *Fall, Winter.*

311-312. ELEMENTARY AND INTERMEDIATE SHORTHAND (1-4-3). [*Formerly 211-212*] Beginning a fundamental background in reading and writing shorthand notes. Minimum standard for passing at the end of each course, 40 and 60 words per minute, respectively, for three minutes with 95 percent accuracy. *Fall, Winter.*

313. ADVANCED SHORTHAND (1-4-3). [*Formerly 213*] Continuation of 312 with added emphasis on dictation and transcription of simple letters and documents. Minimum standard for passing at the end of the course, 80 words per minute with 95 percent accuracy. *Spring.*

401. PRINCIPLES OF DATA PROCESSING (1-2-3). [*Same as Bad 201*] An introduction to modern methods of processing data; includes principles of unit systems and an introduction to computer science.

402. IBM KEYPUNCH (0-6-2). Intensive training in the operation of IBM Key punch machines. Includes instruction on program control, punching computer programs, the development of speed and accuracy in punching and verifying.

412. ADVANCED DICTATION AND TRANSCRIPTION (1-4-3). [*Formerly 312*] Development of speed and accuracy in transcribing shorthand notes. Gregg tests and standards used. Minimum passing standard for passing at the end of course: 100 words per minute for three minutes with 95 percent accuracy. Prerequisite: One year (or equivalent) of Gregg Shorthand.

413. ADVANCED SHORTHAND AND TRANSCRIPTION (1-4-3). [*Formerly 313*] Dictation and transcription of shorthand notes at increased rates; congressional, medical, military, and other pertinent dictation material, as well as office-style dictation. Gregg tests and standards used. Minimum standard for passing at the end of course, 120 words per minute for three minutes with 95 percent accuracy. Prerequisite: OAD 412.

425-426. OFFICE MANAGEMENT AND INTERNSHIP (2-10-5). An intensive study of procedures in administrative office management, together with laboratory experiences "on the job." Assignments arranged through the Chairman of the Division.

499. INDEPENDENT STUDY AND RESEARCH IN OFFICE ADMINISTRATION. This course is designed for majors with special problems of research and development and for those who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor and the specific content of the course is directed by the needs of the student. Prerequisite: Senior status. [*Offered upon request.*] Credit, one to five quarter hours.

DIVISION OF EDUCATION

THELMA MOORE HARMOND, *Chairperson*

JACQUELYN W. STEPHENS, *Head, Elementary Education*

HERMAN W. SARTOR, *Head, Secondary Education*

John C. Adams
Stephen K. Agyekum
Ruby C. Black
Virginia R. Blalock
Clifford Burgess
John H. Cochran, Jr.

Ida J. Gadsden
Cornelia V. Lawson
Aurelia D. Robinson
Maurice S. Stokes
Joseph W. Sumner
Ann E. Whitehead

The Division of Education serves three major purposes: (1) in cooperation with the College-wide Teacher Education Committee and the Georgia Council on Teacher Education, it spearheads the process of continuous planning, experimentation, and evaluation of the total teacher education program; (2) it assumes leadership responsibility for the selection, guidance, and professional preparation of students who will teach in elementary, middle and secondary schools; (3) it provides an adequate foundation for advanced study for persons who plan to continue their educational preparation beyond the baccalaureate degree.

COLLEGE-WIDE PROVISION FOR TEACHER EDUCATION

In the Division of Education there are three departments: the Department of Elementary Education, the Department of Health, Physical Education and Recreation, and the Department of Secondary Education. The preparation of teachers is, however, a College-wide commitment. Because every division and department at the College is involved in teacher education in some subject matter field, this function engages the constant interest and efforts, staff resources, and facilities of the entire institution.

ACCREDITATION AND CERTIFICATION

All teacher education programs at Savannah State College have earned five-year approval from the Georgia Division of Teacher Education and Certification, State Department of Education and hold ten-year endorsement from the National Council for Accreditation of Teacher Education. The programs include: early elementary education; middle school education; secondary education with concentrations in business education, English, French, industrial arts education, mathematics, science, social studies, Spanish, and trade and industrial education; elementary, middle school and secondary education (grades 1-12) in art education, health, physical education and recreation, and music education. These curriculums lead to the

degree of Bachelor of Science in Education. Completion of either of these programs entitles the graduate to be recommended for certification to the Georgia Division of Certification. Reciprocal certification within many states is possible through NCATE accreditation for the graduate.

TEACHER EDUCATION PROGRAMS

Elementary Education

- Early Elementary
- Middle school

Grades 1-12

- Art
- Health, Physical Education and Recreation
- Music

Secondary Education

- Business Education
- English Education
- Mathematics Education
- Modern Languages
 - French Education
 - Spanish Education
- Science Education
 - Biology Education
 - Earth Science Education
 - Chemistry Education
 - Physics Education
- Social Studies Education
 - Behavioral Science
 - History
 - Political Science
- Technical Sciences Education
 - Industrial Arts Education
 - Trade and Industrial Education

The quantitative requirements for graduation in this division are 195 quarter hours, including prescribed health and physical education and orientation courses.

REQUIRED TEACHER EDUCATION SEQUENCE

The following courses complete the minimum core of professional preparation required of all students who plan to teach in the elementary, middle or secondary school:

	Credit Hours
EDN 216	Introduction to Teaching 5

*EDN 334 (E-M-S)	Psychological Block (Including Exceptional Children)	15
*EDN 423 (E-M-S)	Curriculum, Teaching and Teaching Resources	10
*EDN 424 (E-M-S)	Field Experience	15

These courses are to be completed satisfactorily in the order listed. Failure to do so results in loss of credit.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

During the sophomore year, students who plan to complete a curriculum in teacher education are required to submit to the Division of Education an application for admission to the teacher education program. Applications will be screened, and applicants will be notified individually of the action taken on their applications.

The eligibility of applicants for admission to the program will be determined in accordance with the following criteria:

1. Completion of at least sixty (60) quarter hours of general education including EDN 216, or enrollment in EDN 216.
2. Completion of ENG 107, 108, 109 and the Language Skills Examination.
3. Minimum grade-point average of 2.5
4. Possession of characteristics such as physical and intellectual vigor, honesty, enthusiasm, open-mindedness, resourcefulness, and maturity.

Students must seek admission to teacher education at least the quarter preceding their expected enrollment in EDN 334 Psychological Block.

Applications for admission to Teacher Education must be submitted during the first two weeks of the quarter.

ADMISSION TO STUDENT TEACHING

Formal application must be made for admission to student teaching. Appropriate forms may be obtained from the office of the Coordinator of Laboratory Experiences.

For admission to field experience, the student must be in good standing in the teacher education program. He must obtain the approval of (1) the chairman or designated adviser in his field of concentration and (2) the Chairman of Teacher Education or her designee (Head of Secondary or Elementary Education).

*Must be taken in residence.

Specifically the student:

1. Must be in good standing in the teacher education program.
2. Must have completed the teacher education sequence in the prescribed order with at least the grade of C in each course.
3. Must have completed his major content sequence with grades of C or better.
4. Must have passed the Language Skills Examination of the University System of Georgia.

The student will not be permitted to take an additional course during the quarter in which he registers for EDN 424 - Field Experience.

IN-SERVICE AND POST BACCALAUREATE PROGRAM

The Teacher Education Sequence will be offered during the fall, winter, spring, and summer quarters. Modifications and adjustments will be made appropriate to the needs of the in-service and post baccalaureate teacher, including practicums where needed.

Admission to sequence courses will involve: student presentation of a 2.50 cumulative grade point average; staff perusal of the applicant's academic and employment record; staff determination of teaching interest and oral communication competencies through a brief interview; and staff assessment of written communication from an on-the-spot writing activity.

MAJOR COMPREHENSIVE EXAMINATION

To satisfy the institutional requirement for the comprehensive examination, all students in teacher education are required to take both the common examinations and the teaching area of the National Teacher Examinations. It is recommended that students take the examinations during the quarter of the enrollment in EDN 423, Curriculum, Teaching and Teaching Resources or the subsequent quarter.

EARLY ELEMENTARY EDUCATION AND MIDDLE SCHOOL EDUCATION

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107	5 hours
Biology 123-124	10 hours
Physical Science 203	5 hours

Area III — Social Sciences: 20 hours required

History 101-102-200	15 hours
Political Science 200	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Social Science 111-114-201	11 hours
Humanities 233-234	9 hours

A Sequence from the following: 10 hours

Elementary French 141-142

Elementary German 151-152

Elementary Spanish 161-162

PED 233 3 hours

Additional Requirements:

Physical Education 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 104 quarter hours (5 hours taken in Area IV-Core Curriculum)

Major Requirements: 39 hours as specified

Music Education 300 (E-M) 30 (E-M) 6 hours

Education 341 15 hours

Education 342 5 hours

Art Education 401 (E-M)..... 5 hours

Education 411 5 hours

Education 490 E; Education 491 (M) 3 hours

Teacher Education Sequence: 45 hours (5 hours taken in Area IV - Core Curriculum)

Education 216 (in Area IV - Core Curriculum)

324 (E-M), 423 (E-M), 424 (E-M) 40 hours

Electives (concentrations) 20 hours

*Possible concentration in either Early Childhood Education, Media or other areas or combination of areas.

DESCRIPTION OF COURSES

EDUCATION (EDN)

216. INTRODUCTION TO TEACHING (5-0-5). Historical development of education; opportunities in, social significance and ethics of the profession. Surveying facets of the teacher's work to determine potential for teaching. *All quarters.*

215. FIELD COMPONENT OF EDN 216 (1-8-5).

*Student must consult with advisor and/or dept. head.

270. INTRODUCTORY STUDY OF THE ELDERLY. (5-0-5). An introductory course for persons desiring to work with programs and agencies serving the aged. Emphasis will be placed on health, social, and psychological factors as they concern older adults.

334. PSYCHOLOGICAL AND HEALTH BLOCK. (10-10-15). A continuous series of learning experiences on campus and in varied field laboratories designed to assist prospective teachers in the acquisition of competencies needed for understanding human growth, development and learning; the role of and resources for the total health environment; the nature of exceptionality, techniques of identifying the exceptional, the assessment and use of resources for teaching exceptional learners. Prerequisites: EDN 216 and admission to teacher education. *All quarters.*

341. SEMINAR IN THE ELEMENTARY SCHOOL CURRICULUM (10-10-15). Designed to meet student's needs in the teaching of the language arts, including literature, social studies, mathematics, and science; underlying philosophy and interrelationships of the areas; laboratory activities, including observation of and work with elementary pupils; selection and use of literature for children. Registration in additional courses only upon approval of adviser. Prerequisite: EDN 334.

342. THE READING PROCESS (5-0-5). Designed to extend understandings about reading as a developmental, functional, and recreational process. Emphasis on experimental approaches, trends, issues, media and research. *Fall, Winter, Spring.*

347. EDUCATIONAL MEDIA (5-0-5). Workshop experiences in the utilization, evaluation, and preparation of various kinds of media. The place of audio-visual aids in the learning process. *Fall, Winter, Spring.*

422. INTRODUCTION TO THE EXCEPTIONAL LEARNER (5-0-5). An introduction to the study of learners with exceptionalities requiring special educational approaches in schools. *All quarters.*

423. (Regular), 423 (Inservice) - CURRICULUM, TEACHING AND TEACHING RESOURCES (6-8-10). Study of the curriculum, the teaching process and teaching resources. *All quarters.*

424. FIELD EXPERIENCE (2-28-15). A cooperative venture between the College and public school systems to provide supervised classroom experience for elementary and secondary student teachers. Pre-field and post-field seminars for orientation and evaluation while the remainder of the quarter is devoted to observation-participation, teaching and total professional involvement proportionate with student readiness. Major field and total group seminars

held at planned intervals during quarter for student teachers to explore problem areas and to receive assistance. Prerequisites: EDN 216, 334, 423 and completion of major field. *All quarters.*

ELECTIVES

302. EDUCATIONAL PSYCHOLOGY (5-0-5). A study of the learning process and the factors that impinge upon the learner. Special consideration is given to the methods and tools used in the assessment and evaluation of learning.

310. TESTS AND MEASUREMENTS (5-0-5). A beginning course in measurement which covers statistical methods, research designs and research problems. Students are provided experiences in the administration and evaluation of psychological tests. *Fall, Spring.*

315. IMPROVING SPEECH (5-0-5). A survey of human speech development, deviation, underlying causes, and resultant handicaps. Studying standards for efficiency on oral communication with opportunities for self-help in upgrading personal performances. Open to all students. Especially for teaching majors. *Spring.*

323. CHILDREN'S LITERATURE (5-0-5). A study of children's books and selections from books. Designed to assist future teachers in the selection of the best that has been written in the realms of children's literature for each period of the child's life.

400. FIELD STUDY IN PSYCHOLOGY (2-6-5). On-the-job field study assignments are made in industrial, vocational, clinical, social, criminal and educational psychology for a closely supervised career-oriented experience. Weekly seminars provide specific information to correlate with experience. Instructor approval is required one month prior to field experience. *Winter, Summer.*

401. MULTI-CULTURAL EDUCATION. (5-0-5). Designed to study the educational implications of cultural diversity. Examination of the school programs designed to meet the needs and interests of children from different ethnic backgrounds.

410. INDEPENDENT STUDY IN PSYCHOLOGY (1-8-5). Students conduct an in-depth, closely supervised instructor-approved study of a topic in educational psychology. The student is required to evidence skills in independent research and study. Prerequisite: EDN 302 or equivalent. *Fall, Spring.*

411. DIAGNOSING AND PRESCRIBING FOR LEARNING PROBLEMS (5-0-5). Diagnostic and prescriptive process principles underlying assessment and correction of learning problems. Designed to help the classroom teacher (1) determine performance

levels and needs of pupils and (2) provide effective learning assistance.

415. HUMANISTIC PSYCHOLOGY (5-0-5). The individual and his relationships are the focal points of study. Individual perception, personality, motivation and self-esteem become the bases for individual self-actualization in relationships with other individuals, organizations and society. *Winter, Summer.*

416. ADOLESCENT PSYCHOLOGY. (5-0-5). Focus on the phenomenon of modern adolescence. Emphasis upon the intellectual cultural and personal transitions of the adolescent period.

490. EARLY CHILDHOOD SYNTHESIS (1-4-3). Problem centered activities designed to assist the early elementary education major in the synthesis of curriculum experiences.

491. MIDDLE SCHOOL SYNTHESIS (1-4-3). Problem centered activities designed to assist the middle school education major in the synthesis of curriculum experiences.

SECONDARY EDUCATION PROGRAMS

BUSINESS EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Requirements: 92 Hours exclusive of physical education

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Science: 20 hours required

Mathematics 107-110	10 hours
Biology 123-124	10 hours

Area III — Social Sciences: 21 hours required

Social Science 114	1 hour
Social Science 101 or 102	5 hours
Political Science 200	5 hours
History 200	5 hours
Social Science 201	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Economics 201	5 hours
Education 216	5 hours
Humanities 233	5 hours
Business Administration 105-225	8 hours

Choose courses totaling 7 hours selected
 from the following 7 hours
 Office Administration 201-202-203
 BUSINESS Administration 201
 Economics 202

PHYSICAL EDUCATION 6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 Hours

MAJOR FIELD:

BED 350 — Methods of Teaching
 Business Subjects 5 hours
 Business Administration 317-340-360 15 hours
 Economics 331 3 hours
 Accounting 201-202 10 hours
 Restricted electives (Teaching Option) 27 hours

PROFESSIONAL SEQUENCE:

45 hours (5 hours taken in Area IV-Core Curriculum).

EDN 216 (in Area IV-Core Curriculum)
 Education 324-423-424 40 hours

PHYSICAL EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required
 English 107-108-109 15 hours
 Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required
 Mathematics 107 5 hours
 Biology 123-124 10 hours
 Chemistry 101 5 hours

Area III — Social Sciences: 20 hours required
 History 101 or 102 5 hours
 Social Science 201 5 hours
 Political Science 200 5 hours
 History 200 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required
 Education 216 5 hours
 Humanities 233-234 9 hours
 Health Education 200 or 205 3 hours
 Physical Education 204, 235 8 hours

Courses selected from the following:

Physical Education 201, 202, 203,
220, 221, 223, or 243 5 hours

Additional Requirements:

Physical Education 6 hours
Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 45 hours as specified

Physical Education 233-301-303-308-312-316-318-
364-365-401-403-415-420-430-319, 320 or 330 45 hours

Teacher Education Sequence: 45 hours (5 hours taken in Area IV-
Core Curriculum)

Education 216 (in Area IV-Core Curriculum)
Education 324-423-424 40 hours

General Electives 11 hours

ENGLISH EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109 15 hours
Humanities 232 5 hours

Area II — Mathematics and Natural Science: 20 hours required

Mathematics 107, 108, 110 5-10 hours

Ten-hour laboratory sequence from the following:

Biology 123-124 or 126-127
Chemistry 101-102
Physics 201-202 or 201-203
Physical Science 203-204 10 hours

Area III — Social Science: 20 hours required

History 101 5 hours
Political Science 200 5 hours
History 200 5 hours
History 102, Social Science 111, 201 or
Economics 201 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Humanities 233 5 hours
Education 216 5 hours

English 207	5 hours
A sequence from the following:	
French 141-142-143	
German 151-152-153	
Spanish 161-162-163	15 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 96 quarter hours

Major Requirements: 47 hours as specified

English 210-211-306 or 307-320-401-413	
450-451-or 452	42 hours
Philosophy 300	5 hours

Teacher Education Sequence: 45 hours (5 hours taken in Area IV-Core Curriculum)

Education 216 (in Area IV-Core Curriculum)	
Education 324-423-424	40 hours

Electives: 12 hours

English Electives	4 hours
General Electives	8 hours

ART EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107	5 hours
Biology 123-124	10 hours
Physical Science 203	5 hours

Area III — Social Sciences: 20 hours required

History 101-102-200	15 hours
Political Science 200	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Social Science 201	5 hours
Education 216	5 hours
Art 103-108-116-217-240	20 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 51 hours as specified:

Art 238-239-322-323-333-350-351- 352-430-431	39 hours
Art Education 304-401-409.....	12 hours

Teacher Education Sequence: 45 hours (5 hours taken in Area IV - Core Curriculum)

Education 216 (in Area IV-Core Curriculum)	
Education 324-423-424	40 hours

Specific Electives:

French 141	5 hours
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MUSIC EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232.....	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107.....	5 hours
Biology 123-124.....	10 hours
Physical Science 203.....	5 hours

Area III — Social Sciences: 20 hours required

History 101-102-200.....	15 hours
Political Science 200.....	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Social Science 201	5 hours
Education 216	5 hours
Music 111-112-113	9 hours
Music 211-212-213	9 hours
Music 121-122, or 131-132, or 141-142	2 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 46 hours as specified:

Music 123 or 133 or 143	1 hour
Music 124-125-126, or 134-135-136, or 144-145-146	3 hours
Music 221-222-223, or 231-232-233, or 241-242-243	3 hours
Music 224-225-226, or 234-235-236, or 244-245-246	3 hours
Music 307-311-314-315-316-407-411	21 hours
Music 321-322-323, or 331-332-333, or 341-342-343	3 hours
Music 324-325-326, or 334-335-336, or 344-345-346	3 hours
Music 421 or 431 or 441	1 hour
Music 424 or 434 or 444	1 hour
Music Education 301-308-412	7 hours

Teacher Education Sequence: 45 hours (5 hours taken in Area IV-Core Curriculum)

Education 216 (in Area IV-Core Curriculum)

Education 324-423-424 40 hours

Specific Electives:

Music 021-022-023-024-025, 041-042-043-044-045, 051-052-053-054-055	5 hours
French 141	5 hours

FRENCH AND SPANISH EDUCATION

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107	5 hours
Biology 123-124	10 hours
Physical Science 203	5 hours

Area III — Social Science: 20 hours required

History 101-102-200	15 hours
Political Science 200	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

French 141-142-143 or Spanish 161-162-163 15 hours

Humanities 233	5 hours
Social Science 111-201	10 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 105 quarter hours

Major Requirements: 40 hours as specified

Modern Languages: 40 hours required

French 241-242-243 or	
Spanish 261-262-263	15 hours
French 341-342-343-344 or	
Spanish 361-362-363-364	15 hours
French 441 or 442, 444 or	
Spanish 461 or 462, 464	10 hours

Specific Electives: 9 hours required

Humanities 234, Philosophy 300, 301, or 302	9 hours
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Teacher Education Sequence: 45 hours required

Education 216, 324-423-424	45 hours
Electives	9 hours

BIOLOGY EDUCATION

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108	10 hours
Chemistry 101-104	10 hours

Area III — Social Sciences: 20 hours required

Social Science 111-201	10 hours
Political Science 200, History 200	10 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Physics 201-202 or 201-203	10 hours
Biology 128, 200, 201, 202, 203, 206	20 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 38 hours as specified

Biology 301-303-306-307-435	28 hours
Modern Foreign Language.....	10 hours

Specific Electives: 13 hours selected mainly from the following:

Chemistry 307	5 hours
Biology 302, 326, 418	8 hours

Teacher Education Sequence: 45 hours required

Education 216, 324-423-424	45 hours
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CHEMISTRY EDUCATION

JUNIOR COLLEGE CURRICULUM

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108.....	10 hours
Biology 123-124	10 hours

Area III — Social Sciences: 20 hours required

History 102-200	15 hours
Political Science 200	5 hours
Social Science 201	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Chemistry 101-102-103	15 hours
German 151-152	10 hours
Education 216	5 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 50 hours as specified

Chemistry 303-304-307-308-401-402	30 hours
Mathematics 212-213.....	10 hours
Physics 201-202	10 hours

Teacher Education Sequence: 45 hours as specified (5 hours taken in Area IV-Core Curriculum)

Education 216 (in Area IV-Core Curriculum)
 Education 324-423-424 40 hours

Electives:

Humanities 233 5 hours
 Free Elective: 1 hour

MATHEMATICS EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109 15 hours
 Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 108-109 10 hours
 Physics 201-202 10 hours

Area III — Social Sciences: 20 hours required

History 101 5 hours
 Political Science 200 5 hours
 Economics 201 5 hours
 History 200 5 hours

Area IV — Courses Appropriate to Major: 30 hours required

Mathematics 212-213-214 15 hours
 Education 216 5 hours
 Humanities 233 5 hours
 Social Science 201 5 hours

Additional Requirements:

Physical Education 6 hours
 Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 99 Quarter Hours

Major Requirements: 50 hours as specified

Mathematics 315-316-321-404 20 hours
 Mathematics 318, 319, 320 5 hours
 Mathematics 409, 410, 411 5 hours
 Mathematics 250-260 10 hours
 Physics 203-310 10 hours

Teacher Education Sequence: 45 hours (5 hours taken in Area IV-Core Curriculum)

Education 216 (in Area IV-Core Curriculum)

Education 324-423-424	40 hours
Electives	7 hours

EARTH SCIENCE EDUCATION

JUNIOR COLLEGE CURRICULUM

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required	
Mathematics 108-109	10 hours
Chemistry 101-102	10 hours

Area III — Social Sciences: 20 hours required	
History 102-200	10 hours
Social Science 201	5 hours
Political Science 200	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required	
Physical Science 204	5 hours
Physics 201-202 or 203	10 hours
Earth Science 221-223	10 hours
Biology 128	5 hours

Additional Requirements	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 103 quarter hours

Major Requirements: 28 hours required	
Earth Science 300-320-404-420-440-490-499	28 hours

Specific Electives: 28 hours	
Chemistry 303	10 hours
Earth Science Electives	8 hours
Biology 306	5 hours
Mathematics 212	5 hours

Teacher Education Sequence: 45 hours	
Education 216-324-423-424	45 hours

PHYSICS EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 108-109	10 hours
Chemistry 101-102	10 hours

Area III — Social Sciences: 20 hours required

History 101-102	10 hours
Social Science 201	5 hours
Political Science 200	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Physics 201-202-203	15 hours
Chemistry 103, Biology 128, Mathematics 200	5 hours
Mathematics 212-213	10 hours

Additional Requirements

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM

Requirements: 98 quarter hours

Major Requirements: 44 hours as specified

Physics 310	5 hours
Physics 306, 307, 308, 312	12 hours
Physics 410, 499	7 hours
Mathematics 250	5 hours
Biology 301, 309, Chemistry 305, Earth Science 320	5 hours
Mathematics 214-404	10 hours

Teacher Education Sequence: 45 hours

Education 216-324-423-424	45 hours
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General Electives (Major or Minor)..... 7 hours

SOCIAL STUDIES EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107, 108, or 110	5 hours
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Ten-hour laboratory sequence from the following:

Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours
Physical Science 203	5 hours

Area III — Social Sciences: 20 hours required

Social Science 111-201	10 hours
History 101-102	10 hours

Area IV — Courses Appropriate to the Major: 30 hours required

History 202-203	10 hours
Political Science 200	5 hours

A sequence from the following:

Elementary French 141-142-143	
Elementary German 151-152-153	
Elementary Spanish 161-162-163	15 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Major Requirements: 45 hours as specified

History 308-331-332-351-352-353-380	35 hours
Social Science 420	5 hours
Sociology 201	5 hours

Teacher Education Sequence: 45 hours as specified

Education 216-324-423-424	45 hours
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General Electives	5 hours
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INDUSTRIAL ARTS EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required
 Biology 123-124 or Chemistry 101-102 10 hours
 Mathematics 107-108..... 10 hours

Area III — Social Science: 20 hours required
 History 101-200 10 hours
 Political Science 200 5 hours
 Social Science 201 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required
 Art 103, 108 or 130 5 hours
 Education 216 5 hours
 Engineering Technology 101-102-103 15 hours
 Physics 201 5 hours

Additional Requirements:
 Physical Education 6 hours
 Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:
 Requirements: 98 quarter hours

Major Requirements: 61 hours as specified
 Industrial Arts Education 201-202-203-301-302
 312-401-402 or 413-411-421 50 hours
 Mechanical Engineering Technology 312-313 10 hours
 Technical Sciences 322 1 hour

Teacher Education Sequence: 35 hours (5 hours taken in Area IV-
 Core Curriculum)
 Education 216 (in Area IV-Core Curriculum)

Education 324-424 30 hours

General Electives 3 hours

TRADE AND INDUSTRIAL EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:
 Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required
 English 107-108-109 15 hours
 Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required
 Biology 123-124 or Chemistry 101-102 10 hours
 Mathematics 107-108..... 10 hours

Area III — Social Science: 20 hours required

History 101-102-200	15 hours
Political Science 200	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Trade and Industrial Education 100-200-210	15 hours
Art 103, 108, or 130	5 hours
Education 216	5 hours
Social Science 201	5 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 61 hours as specified

Industrial Arts Education 201-202-203-301-302	
312-401-402 or 413-411-421	50 hours
Mechanical Engineering Technology 312-313	10 hours
Technical Sciences 322	1 hour

Teacher Education Sequence: 35 hours (5 hours taken in Area IV-Core Curriculum)

Education 216 (in Area IV-Core Curriculum)

Education 324-424

30 hours

General Electives

3 hours

LIBRARY EDUCATION

301. SCHOOL LIBRARY ADMINISTRATION AND ORGANIZATION (5-0-5). Methods of developing a strong functioning library as an integral part of the school; routines involved in administration, acquisition, circulation and care of materials; planning the library or media center, public relations and personnel. *Fall*.

302. CATALOGING AND CLASSIFICATION (5-0-5). Designed to provide an introduction to classification and cataloging for modern school libraries; includes the fundamentals of cataloging, classification according to the Dewey Decimal System, the use of subject headings and the principles underlying the selection of books and non-print materials. *Winter*.

401. SCHOOL LIBRARY MATERIALS (5-0-5). The selection and use of books and non-print materials for school libraries. The study of basic aids in selection, book reviewing and annotation, with spe-

cial attention to the use of books and materials in correlation with the curriculum.

402. BASIC REFERENCE SOURCES (5-0-5). Basic reference tools for the school library and problems in their use of such tools as encyclopedias, dictionaries, atlases, bibliographies, representative handbooks, and non-print media.

DIVISION OF HUMANITIES

LUETTA C. MILLEDGE, *Chairperson*

The humanities embrace those skills, understandings, and appreciations which make for a well-rounded life. Imbued with the ideas, values, and ideals that exalt life, the humanities emphasize the impact of great minds and imaginations of the past upon great minds and imaginations of the present, and constantly point the way to the good life.

Specifically, the Division of Humanities provides opportunity for study and analysis of the language, literature, art, and music of the world. The study and analyses are aimed at motivating the student to expand his/her aesthetic horizon, to enliven his/her spirit of inventiveness and individuality, and to acquire a finer appreciation and understanding of the human spirit.

This Division comprises the Department of English, the Department of Fine Arts, and the Department of Modern Languages.

DEPARTMENT OF ENGLISH

LUETTA C. MILLEDGE, *Head*

Julia H. Bennett
Arthur L. Brentson
Oscar C. Daub
Robert Holt
Elisabeth Lunz*
Sister Mary Julie Maggioni**
Michael Kevin Maher

Yvonne H. Mathis
George J. O'Neill
Louise L. Owens
Robert L. Stevenson
Murdell W. Varnado
Alma S. Williams

The ultimate aim of the Department of English is to develop in the student a quality of mind marked by constructive, imaginative, and creative inquiry and thinking. The Department aims to help the student develop these aspects of his/her personality and intellect: (1) oral and written language proficiency, including an awareness of linguistic plurality; (2) critical knowledge and consequent appreciation of the literary arts in their various modes, including the written, the oral, and the cinematic; (3) affective, aesthetic, and intellectual flexibility and perceptiveness; and (4) humane spirit and values.

The student who has successfully pursued English as his/her major area of study should be able to distinguish between genuinely

*On leave, 1977-1978
**Retired, June, 1978

great literature and that which is less than great. He/She should have a critical acquaintance with a representative number of masterpieces in American, English, and world literature; he/she should be aware of the seminal ideas, concepts, and archetypes informing these works; and he/she should have some facility in applying the major critical approaches to literature. The English major is expected to demonstrate facility and taste in expression, to have a satisfactory knowledge of the history and nature of the English language, and to be cognizant of dialectal variety in American English. In addition to the proficiencies already listed, the English Education major should have knowledge of the major methods of teaching the language arts and skills, including an awareness of the most recent approaches to teaching rhetoric and composition and a knowledge of modern trends in teaching literature and language.

PLAN OF STUDY

All freshman students are required to take a placement test in English and, on the basis of achievement on the test, are assigned to sections of English 107 or to English courses in the Special Studies Department.

THE ENGLISH MAJOR

A non-teaching major in English must include two period courses (301, 303, 305, 306); one course in American literature (220, 221); one genre course (403, 405, 406); one course in world literature (331, 332); one course in English literature (210, 211), three seminars in English; one course in linguistics; and one author course (Shakespeare).

A student majoring in English language and literature will complete at least fifty-four quarter hours in language, composition, literature, and speech, in addition to freshman English.

An English major who expects to teach English must take one period course, one course in American literature, one course in English literature, one course in linguistics, one genre course, one course in world literature for majors, and two seminars in English, and two electives in English, in addition to freshman English, advanced composition, and speech.

Majors in both areas are strongly urged to take second courses in English literature and in American literature as electives.

THE ENGLISH MINOR

A minor in English consists of thirty hours *beyond* English 107, 108, and 109. It must include one course in American literature, one course in English literature, one genre course, and one seminar in English.

Curriculum For Majors in English Language and Literature

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Science: 20 hours required

Mathematics 107, 108, 110	5-10 hours
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Ten-hour laboratory sequence from the following:

Biology 123-124 or 126-127

Chemistry 101-102

Physics 201-202 or 201-203	10 hours
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Physical Science 203-204	5-10 hours
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Area III — Social Science: 20 hours required

History 200	5 hours
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Political Science 200	5 hours
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History 101	5 hours
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History 102, Social Science 111, 201 or Economics 200	5 hours
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Area IV — Courses Appropriate to the Major: 30 hours required

English 204 or 207	5 hours
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English 210 or 211	5 hours
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Humanities 233	5 hours
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A sequence from the following:

French 141-142-143

German 151-152-153

Spanish 161-162-163	15 hours
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Additional Requirements:

Physical Education	6 hours
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Social Science 114	1 hour
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SENIOR COLLEGE CURRICULUM:

Requirements: 96 quarter hours

Major Requirements: 51 hours as specified

English 210 or 211-220-221-301 or 303 or 305-306

or 307-320-331 or 332-401-413-450-451-452	46 hours
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Philosophy 300	5 hours
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English Electives (including Humanities 234)	12 hours
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Minor Field	25 hours
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General Electives	8 hours
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ENGLISH EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109 15 hours
Humanities 232 5 hours

Area II — Mathematics and Natural Science: 20 hours required

Mathematics 107, 108, 110 5-10 hours

Ten-hour laboratory sequence from the following:

Biology 123-124 or 126-127

Chemistry 101-102

Physics 201-202 or 201-203 10 hours

Physical Science 203-204

Area III — Social Science: 20 hours required

History 101 5 hours

Political Science 200 5 hours

History 200 5 hours

History 102, Social Science 111, 201 or

Economics 201 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Humanities 233 5 hours

Education 216 5 hours

English 207 5 hours

A sequence from the following:

French 141-142-143

German 151-152-153

Spanish 161-162-163 15 hours

Additional Requirements:

Physical Education 6 hours

Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 96 quarter hours

Major Requirements: 47 hours as specified

English 210-211-220 or 221-301 or 303 or 305-306

or 307-320-401-413-450-451- or 452 42 hours

Philosophy 300 5 hours

Teacher Education Sequence

Education 334-352-423-424 45 hours

Electives: 10 hours

Specific Elective (Humanities 234) 4 hours

General Electives 6 hours

COMPREHENSIVE EXAMINATION FOR ENGLISH MAJORS

Senior English language and literature majors are required to take the Graduate Record Examination (Area and Aptitude tests) as the comprehensive examination in their field.

Senior English Education majors are required to take the National Teacher Examination as the comprehensive examination in their field.

COMMUNICATIONS MINOR

The Department of English offers a minor in communications. A student may select courses in electronic and print media. The minimal requirement for a minor in communications is twenty-five quarter hours.

DESCRIPTION OF COURSES

HUMANITIES

232-233. INTRODUCTION TO THE HUMANITIES (5-0-5). Interdisciplinary courses in art, literature, and music. Prerequisite: ENG 109. *All quarters.*¹

234. INTRODUCTION TO THE HUMANITIES (4-0-4). An interdisciplinary course in art, literature, and music. Prerequisite: ENG 109. *All quarters.*¹

301. WORLD RELIGIONS (5-0-5). An introduction to the religions of the world, with attention to milieu and emphasis upon the irenic approach. *All quarters.*

ENGLISH

107-108-109. ENGLISH COMMUNICATIVE SKILLS (5-0-5).² (To be taken in sequence.) Designed to develop competence in: (1) reading, writing, speaking, listening, and demonstrating; (2) creative, critical thinking; precision of thought and expression through oral and written reports. A minimum passing grade of C is required in each course. *All quarters.*

092. READING AND WRITING SKILLS (3-0-3). Intensive study and practice in reading and writing. Designed for students who fail the University System Language Skills Examination. Passing contingent upon passing LSE. Institutional credit. *All quarters.*

¹Unless otherwise indicated, satisfactory completion of the Sophomore Humanities requirement is prerequisite to enrollment in any course numbered 300 or above.

²Unless otherwise indicated, satisfactory completion of the Freshman English Sequence (ENG 107-108-109) is prerequisite to enrollment in any course numbered 200 or above.

204. ADVANCED COMPOSITION. Intensive study of the theory and practice in writing the basic composition forms. Prerequisite: ENG 109. *Spring*.

207. TECHNIQUES OF COMPOSITION (5-0-5). Designed for prospective teachers of English. Emphasis upon content, logic and organization in connected discourse; development of skill in various types of writing; ability to analyze pieces of writing for strengths and weaknesses, and to make valid suggestions for improvement; relating of these matters to methods of teaching. *Fall*.

210. INTRODUCTION TO ENGLISH LITERATURE (5-0-5). A survey of English writing from Beowulf to the Romantic Period. Prerequisite: ENG 109. *Fall, Summer*.

211. INTRODUCTION TO ENGLISH LITERATURE (5-0-5). A survey of English writing from the Romantic Period to the Contemporary Period. Prerequisite: ENG 109. *Winter*.

220. AMERICAN LITERATURE FROM THE COLONIAL PERIOD TO 1865 (5-0-5). A study of the main currents of thought and expression in America. Prerequisite: ENG 109. *Winter, Summer*.

221. AMERICAN LITERATURE SINCE 1865 (5-0-5). A study of the main currents in literary thought and expression in America from 1865 to the present. Prerequisite: ENG 109. *Fall, Spring*.

301. ENGLISH LITERATURE OF THE SEVENTEENTH CENTURY (5-0-5). A survey of the important writers—their styles, subject matter and philosophies. Special emphasis upon the works of Milton, Dryden, and Bacon. Prerequisites: ENG 210 or 211, 204. *Fall*.

303. THE ENGLISH ROMANTIC MOVEMENT (5-0-5). The genesis of the Romantic theory and the beginning of the Romantic revolt in English; significant literary aspects of the Movement as shown in the works of Wordsworth, Coleridge, Byron, Shelley, and Keats; in the prose writing of Hazlitt, DeQuincey, Hunt, Lamb and Scott. Prerequisites: ENG 210 or 211, 204. *Winter*.

305. VICTORIAN PROSE AND POETRY (5-0-5). An analytical study of the age of Queen Victoria of England; literature of the period as represented by the works of Tennyson, the Brownings, Carlyle, Arnold, Ruskin, and Meredith. Prerequisites: ENG 210 or 211, 204. *Spring*.

306. CONTEMPORARY PROSE AND POETRY (5-0-5). A survey of the major trends and themes in world literature, including American, from World War I to the mid-twentieth century. Prerequisites: ENG 210 or 211, 220 or 211, and 204 or 207. *Spring*.

307. MAJOR AUTHORS SINCE 1950 (5-0-5). A survey of major trends and works in world literature, including American, of recent times. Prerequisites: same as for ENG 306. *Winter, Summer.*

315. WEST AFRICAN LITERATURE (3-0-3). An introduction to the literature of West Africa, with emphasis upon the oral tradition and its influence on contemporary Black African and Black American literature. *Winter.*

316. THE POETRY OF THE BLACK AMERICAN (3-0-3). An intensive study of the poetic contribution of Black Americans from Lucy Terry to Don Lee, with an examination of social and other forces which have contributed to its development. *Spring.*

317. THE PROSE OF THE BLACK AMERICAN (3-0-3). A study of the literary, social, and historical aspects of the essays, fiction, and drama created by the Black American, from William Wells Brown to Eldridge Cleaver. *Fall.*

320. INTRODUCTION TO THE ENGLISH LANGUAGE (5-0-5). The nature of language, the structure of modern English, descriptive grammars, and history of the English language with extensive treatment of the development of English in America. Prerequisite: ENG 109. *Fall, Summer.*

331. LITERARY ANALYSIS AND CRITICISM (3-0-3). For English majors. A study of masterpieces other than English and American. *Fall, alternate years.*

332. LITERARY ANALYSIS AND CRITICISM (3-0-3). Continuation of 331. *Winter, alternate years.*

341. THE METRICAL TALE AND ROMANCE (3-0-3). A study of the medieval narrative with particular emphasis upon Chaucer's poetry. *Winter, alternate years.*

342. THE EPIC TRADITION (3-0-3). A study of the epic from classical antiquity to Milton. *Spring, alternate years.*

401. SHAKESPEARE (5-0-5). Background, home life, and parentage of Shakespeare; Elizabethan theatrical traditions and conventions. Opportunity for reading and critical discussion of the great tragedies, comedies, and historical plays of the author. Consent of instructor. *Fall, Spring.*

403. CRITICISM (3-0-3). Analysis and criticism of recent English and American poetry. Emphasis on the changing ideas of poetry in relation to persistent, as well as new, forms and techniques. Prerequisites: ENG 210 or 211, 331 or 332. *Spring.*

405. THE ENGLISH NOVEL (5-0-5). An evaluating study of works of great English novelists. Rise and development of the English novel, together with an analytical appraisal of the four elements—setting, character, plot, and philosophy. Readings and discussion of various types, with emphasis upon the variety of methods by which the novel interprets life. Consent of the instructor. *Winter*.

406. INTRODUCTION TO DRAMA (5-0-5). Chronological study of drama, with emphasis on selected writers and their works. Consent of instructor. *Spring*.

411. PLAY PRODUCTION (5-0-5). A critical study of the types of plays with general principles of directing for each type; editing the script; the fundamentals of casting, lighting, make-up, etc. Prerequisite: ENG 109. *Winter*.

413. ADVANCED SPEECH (5-0-5). Emphasizes self-improvement in all phases of diction and provides experience in various speaking situations. Designed primarily for teaching majors but can be used by any student. Consent of instructor. *Fall*.

415. THE RHETORIC OF THE BLACK AMERICAN (3-0-3). A textual and critical study of Afro-American speakers and movements from the 18th century to the present; an appraisal of the significant rhetoric of such speakers as Frederick Douglass, Marcus Garvey, Malcolm X, and Martin Luther King. *Winter*.

416. THE BLACK THEATER. (3-0-3). An examination of the contribution of the Black man to American drama. Traces the development of Black theater from minstrels to modern theater workshops. *Spring, alternate years*.

417. THE NOVEL OF THE BLACK AMERICAN (3-0-3). A critical study of the novel created by the Black man in America from William Wells Brown to William Melvin Kelley, with analysis of the literary aspects and racial themes of these novels. *Spring, alternate years*.

440. THE TEACHING OF ENGLISH (3-0-3). Concepts, principles, and practices basic to the teaching of English in the secondary school. Emphasis upon readings, discussion, and observation. Prerequisite: Senior classification. *Fall*.

450-451-452. SEMINAR IN ENGLISH (1-0-1). Special problems in English. Reports and research techniques. Prerequisite: Junior standing. Three courses required of all majors in either their junior or senior years. *Fall, Winter, Spring*.

454. AMERICAN ENGLISH DIALECTS (5-0-5). An analytical study of the major American English vernacular varieties with an

emphasis upon Black vernacular English; sociological factors in relation to language learning; and scholastic achievement of the linguistically different. Prerequisites: ENG 320, 413. *Spring*.

COMMUNICATIONS (COM)

351. THE MASS MEDIA AND CULTURE (5-0-5). An analytical survey of the forms and modes of mass expressive symbolism from cave painting to comic strips and from drum to electronic medium, with emphasis upon semantics and cultural influences. *Fall*.

352. ELECTRONIC MEDIA (5-0-5). (Film, Radio, and Television). An examination of the nature of each medium; audio-visual perception; content analysis; communication theories; critical analysis; types of sponsorship. *Winter*.

361. INTRODUCTION TO JOURNALISTIC WRITING (5-0-5). A survey of newspaper methods, news writing, and reporting. Prerequisite: ENG 204. *Winter*.

362. PRINCIPLES OF JOURNALISTIC WRITING (5-0-5). Principles and practices of writing for newspapers, magazines, trade papers, house organs, etc. Prerequisite: COM 361. *Spring*.

363. ELECTRONIC JOURNALISM (5-0-5). Principles and practices of newswriting and preparation of commercial copy for radio and television; analysis of auditory and visual elements involved. Emphasis upon new production and editing and copywriting. Prerequisite: ENG 109. *Winter*.

364. THE BLACK PRESS (5-0-5). A historical and analytical survey of the Black press in America. *Spring*.

451. LANGUAGE AND PERSUASION (5-0-5). Principles and practices of classical, tribal African, 18th Century American, and contemporary Black rhetoric, including the language of politics, religion, and other significant modes. *Fall*.

461. THE NON-FICTION FEATURE (5-0-5). Writing and merchandising of the non-fiction feature for Sunday magazine supplements, newspapers, and magazines. *Winter*.

462. THE SCHOOL PRESS (5-0-5). Emphasis upon college and high school publications with opportunities for professional evaluation and guidance. *Summer*.

463. FEATURE WRITING FOR ELECTRONIC MEDIA (5-0-5). Principles and practices of writing feature material for radio and television; documentaries, specials, and interviews, with emphasis

upon both standard and creative forms. Prerequisite. COM 363. *Summer.*

471. SPEECH FOR RADIO AND TELEVISION I (5-0-5). Basic techniques for radio and television broadcasting. Emphasis upon newscasting, advertising, sportscasting, and disc jockey formats. Prerequisite: ENG 413. *Winter.*

491. MEDIA INTERNSHIP (5-10-5). On-the-job experience in a communications business or related concern. Consent of instructor.

DEPARTMENT OF FINE ARTS

JANE J. PARKER, *Acting Head*

William J. Anderson
O. Fred Becker
Samuel A. Gill
Farnese H. Lumpkin

John Mach
*Marvelene Moore
**Christian E. Oliver
James Thompson, Jr.

The Department of Fine Arts encourages students to find in the several areas of music and the graphic and plastic arts an appreciation of aesthetic values in general education and opportunities for the development of their special interests and abilities in these fields. In conformance with the stated philosophy of the college, the department stresses specific objectives in the areas of music and art.

GRAPHIC AND PLASTIC ARTS

The courses in graphic and plastic arts are intended to:

1. Provide students with the skills and experiences necessary for teaching art in elementary and secondary schools;
2. Prepare students for pure, creative production;
3. Provide basic preparation for further study in the various professional fields of art;
4. Provide electives for the total growth of students; and
5. Enrich the community through art activities such as exhibitions, motion pictures, lectures, and art clubs.

ART EDUCATION

To implement the foregoing objectives, the Department of Fine Arts offers courses leading to the degree of Bachelor of Science in Education, with a concentration in art education. A graduate who has completed the art education program may be recommended to the Division of Teacher Certification for certification as a teacher of art in grades one through twelve.

*Resigned, June, 1978

**On Leave, 1977-78

THE MUSIC PROGRAM

The courses in music lead to the degree of Bachelor of Science in Education, with a concentration in music education. The Bachelor of Music Education degree is given at Armstrong State College in cooperation with Savannah State College.

The curriculum prepares students for certification by the State Department of Education as teachers of music in grades one through twelve; and it provides training in individual and group participation. Adequate preparation for choral conductors and band directors is stressed. Functional piano facility is encouraged for all majors.

It is expected that in all phases of the music program students will be aware of their tremendous responsibility to enrich the lives of people in their communities by their talents, skills, and musical initiative. The creative impulse is strongly encouraged. Emphasis is continuously placed upon musical activities which develop the entire personality by making use of all physical and mental resources necessary to performance, whether it be in the instrumental or vocal areas, and in exercising intelligent judgment in the area of musical creativity.

ADMISSION TO THE MAJOR PROGRAM IN MUSIC

It is desirable that all applicants for admission to the major program in music will have had at least two years of previous musical training in the vocal and/or instrumental areas. The Department will determine by aptitude tests and individual auditions the applicant's theoretical knowledge, instrumental and vocal proficiency, and general professional fitness for the program. This information will serve as a guide to the Department in helping the applicant to plan his college work.

ART EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107	5 hours
Biology 123-124	10 hours
Physical Science 203	5 hours

Area III — Social Sciences: 20 hours required

History 101-102-200	15 hours
Political Science 200	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required
 Social Science 201 5 hours
 Education 216 5 hours
 Art 103-108-116-217-240 20 hours

Additional Requirements:

Physical Education 6 hours
 Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 51 hours as specified:

Art 238-239-322-323-333-350-351-
 352-430-431 39 hours
 Art Education 304-401-409 12 hours

Teacher Education Sequence: 42 hours

Education 303-304-317-422-429-430 42 hours

Specific Electives:

French 141 5 hours

MAJOR COMPREHENSIVE EXAMINATION

Senior Art Education majors are required to take the National Teacher Examination as the comprehensive examination in their field.

MUSIC EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109 15 hours
 Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107 5 hours
 Biology 123-124 10 hours
 Physical Science 203 5 hours

Area III — Social Sciences: 20 hours required

History 101-102-200 15 hours
 Political Science 200 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Social Science 201 5 hours
 Education 216 5 hours

Music 111-112-113	9 hours
Music 211-212-213	9 hours
Music 121-122, or 131-132, or 141-142	2 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 46 hours as specified:

Music 123 or 133 or 143	1 hour
Music 124-125-126, or 134-135-136, or 144-145-146	3 hours
Music 221-222-223, or 231-232-233, or 241-242-243	3 hours
Music 224-225-226, or 234-235-236, or 244-245-246	3 hours
Music 307-311-314-315-316-407-411	21 hours
Music 321-322-323, or 331-332-333, or 341-342-343	3 hours
Music 324-325-326, or 334-334-336, or 344-345-346	3 hours
Music 421 or 431 or 441	1 hour
Music 424 or 434 or 444	1 hour
Music Education 301-308-412	7 hours

Teacher Education Sequence: 42 hours

Education 303-304-317-422-429-430	42 hours
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Specific Electives:

Music 021-022-023-024-025, 041-042-043-044-045, 051-052-053-054-055	5 hours
French 141	5 hours

MAJOR COMPREHENSIVE EXAMINATION

Senior Music Education majors are required to take the National Teacher Examination as the comprehensive examination in their field.

DESCRIPTION OF COURSES

ART (ART)

103. BASIC DESIGN (1-8-5). An introduction to the core principles and elements of all graphic and plastic design. Problems and discussion evolve around two and three dimensional design. *Fall*.

108. DRAWING (0-8-4). Portrait and figure drawing, study of anatomy as to proportion and balance of the human figure. Drawing

from the live model with an emphasis on structure, interpretation and movement. The course develops accurate observations, the understanding of the human figure, and an effective use of drawing media. *Spring. Elective.*

116. CRAFTS I (0-6-3). Experiences in significant craft materials: wood, fabrics, and metal. Students will experience elementary weaving techniques, fabric printing, jewelry and metal projects, and techniques of wood crafts. Prerequisite: ART 108. *Spring.*

217. CRAFTS II (0-6-3). A continuation of ART 216. *Fall.*

238. CERAMICS I (1-4-3). An initial study of ceramic processes such as modeling, stacking, firing, glazing, and decorating ceramic forms. *Fall.*

239. CERAMICS II (0-6-3). A continuation of ART 238. Emphasis on design, decorating, and classroom application in the public schools. *Winter.*

240. CERAMICS III (1-8-5). A study of ceramic materials and processes used in designing, constructing, glazing and firing earthenware and stoneware clays. There will be opportunities to do hand-building and wheel work, and to build small ceramic sculpture. This course must be taken by majors in art education, but is open to all students and art teachers. *Spring.*

301. BASIC PHOTOGRAPHY (2-6-5). An exploration of photography with fundamentals of theory, processes and equipment. Participation by students in all aspects of photography with an emphasis on shooting techniques, darkroom procedure, and presentation methods. *Fall, Winter, Spring. Elective.*

322. PAINTING I (0-10-5). An introduction to painting media and painting techniques including encaustic and gouache. *Winter.*

323. PAINTING II (0-10-5). A continuation of Painting I. Emphasis on advanced techniques, easel and mural designs. *Spring.*

333. SCULPTURE (0-10-5). A study of three-dimensional forms and the limitations of sculptural media. Experiences include work in clay, wood, stone, metal, and plaster. *Spring.*

350. HISTORY OF ART I (3-0-3). A chronological perspective of art history from pre-historic times to the Renaissance. *Fall.*

351. HISTORY OF ART II (3-0-3). A chronological perspective of art history from the Renaissance to the end of the nineteenth century. *Winter.*

352. HISTORY OF ART III (3-0-3). A chronological perspective of art history of the twentieth century including a study of the major achievements and expressional trends in architecture, painting, sculpture and graphic art. *Spring*.

430. PRINTMAKING I (1-6-4). Designed to provide creative experiences in the reproductive arts. Experiences evolve around mono-type and linoleum, also initial experiences in advanced forms of printmaking, such as lithograph. Discussion on survey of world printmakers. *Fall*.

431. PRINTMAKING II (1-8-5). This is a comprehensive course designed explicitly for printmaking in the community. Experiences will be offered in relief and intaglio prints, paperplate lithograph, stencil and fabric printing. This course must be taken by majors in Art Education, but is open to students and teachers in all areas. *Winter*.

432. PRINTMAKING III (0-15-5). This course is designed to explore new techniques, ideas, and combinations in Printmaking. It emphasizes innovations such as collagraphs, woodcuts on textiles, silkscreen, and combinations of woodcuts or silkscreen with etchings or collagraph. Basically for the advanced printmaker, it is also applicable to the novice with a good general art background. Prerequisite: Admission by consent of the instructor. *Spring. Elective*.

ART EDUCATION (AED)

304. ART EDUCATION (1-6-4). An introduction to art education, philosophy, and practice. Discussion, observation, and studio participation. *Fall*.

401. ART FOR TEACHERS (1-8-5). Designed to acquaint majors in Elementary Education and Art Education with the techniques and mechanics for developing an elementary art program. Work is given in three-dimensional forms. *Fall, Winter, Spring*.

409. SEMINAR IN ART PROBLEMS (3-0-3). Designed especially for majors who will teach art. Specific problems in Art Education: field trips; discussion of professional qualities; art in the community; interrelationships of various conditions of art. Prerequisite: AED 304-401. *Winter*.

DESCRIPTION OF COURSES

MUSIC (MUS)

021-022-023-024-025-041-042-043-044-045-051-052-053-054-055.
BAND, MEN'S GLEE CLUB, WOMEN'S ENSEMBLE (0-2-1). These organizations are open for elective credit to all students, but participation by majors in music is required for four years. Majors

in elementary education are especially encouraged to enroll. *Fall, Winter, Spring*. Credit given for three quarters during the Freshman year, two quarters during the Sophomore year.

111-112-113. THEORY I (Ear-Training and Sight-Singing) (3-2-3). A course in notation, time signatures, major and minor scales, intervals, melodic and rhythmic problems, song reading and musical dictation. *Fall, Winter, Spring*.

121-122-123. FUNDAMENTALS OF BAND INSTRUMENTS (1-0-1). Brass, Woodwind, and Percussion. Basic elements for the brass and woodwinds include embouchure control, breath control, time and key signatures, scales, and phrasing. Percussion players are required to perfect single taps and are introduced to basic drum rudiments. *Fall, Winter, Spring*.

124-125-126. APPLIED MAJOR AREA—BAND INSTRUMENTS (1-0-1). These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performance will be expected of the student during each year of his training. *Fall, Winter, Spring*.

131-132-133. FUNDAMENTALS OF PIANO (1-0-1). These courses introduce techniques and basic musical knowledge such as notes, time signature, tempo markings, fingering, and phrasing. *Fall, Winter, Spring*.

134-135-136. APPLIED MAJOR AREA—PIANO (1-0-1). These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *Fall, Winter, Spring*.

141-142-143. FUNDAMENTALS OF VOICE (1-0-1). Vocal technique, diction, breathing, and posture are stressed and applied to songs with specific vocal problems. *Fall, Winter, Spring*.

144-145-146. APPLIED MAJOR AREA—VOICE (1-0-1). These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *Fall, Winter, Spring*.

210. AFRO-AMERICAN MUSIC (3-0-3). A cultural analysis of African folk music and its influence upon the development of spirituals, work songs, and jazz. Contributions of Afro-American music to both popular and classical traditions will be studied. *Fall, Winter, Spring. Elective*.

211-212-213. THEORY (3-2-3). A continuation of Theory I with study modulations, advanced chorus, harmonization of melodies, and analysis of standard compositions. *Fall, Winter, Spring.*

221-222-223. INTERMEDIATE BAND INSTRUMENTS (1-0-1). Brass, Woodwind, and Percussion. A continuation of the basic elements and techniques. An introduction to solo and chamber music is made. Percussion players will commence study on other instruments such as snare, brass, and kettle drums. *Fall, Winter, Spring.*

224-225-226. APPLIED MAJOR AREA—BAND INSTRUMENTS (1-0-1). These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *Fall, Winter, Spring.*

231-232-233. INTERMEDIATE PIANO (1-0-1). A continuation of MUS 131-132-133. Such skills as memorization, sight-reading, harmonization, and transposition will be additional goals. *Fall, Winter, Spring.*

234-235-236. APPLIED MAJOR AREA—PIANO (1-0-1). These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *Fall, Winter, Spring.*

241-242-243. INTERMEDIATE VOICE (1-0-1). This course continues the development of Music 141-142-143. More particular attention is given to understanding the oratorio, cantata, recitative, and German lieder. *Fall, Winter, Spring.*

244-245-246. APPLIED MAJOR AREA VOICE (1-0-1). These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *Fall, Winter, Spring.*

306. CHORAL TECHNIQUES (3-0-3). This course is designed to develop basic techniques for choral musicians. Meter pattern, preparatory beats, cueing, diction, blend, balance, and intonation are discussed. Musical scores are prepared. *Fall, Winter, Spring. Elective.*

307. ORCHESTRATION AND INSTRUMENTATION (3-0-3). A study of the range, playing techniques, and musical characteristics of all instruments with emphasis upon the orchestral score and the writing of music for instrumental ensembles. *Fall.*

310. JAZZ ENSEMBLE (3-0-3). This course is designed to expose the student to composers and arrangers of jazz, rock, and soul music. The subject of improvisation is also included. *Fall, Winter, Spring. Elective.*

311. THEORY III (FORM AND ANALYSIS) (3-0-3). A study of the construction of music from the eighteenth century to the present, including the harmonic and melodic analysis of pieces by major composers. *Spring.*

314-315-316. HISTORY AND LITERATURE OF MUSIC (3-0-3). A survey of the history of music from the beginning of the Christian era to the present. Emphasis is placed upon a study of representative works by major composers, together with a comprehensive analysis of style and musical development in their countries. *Fall, Winter, Spring.*

321-322-323. ADVANCED BAND INSTRUMENTS (1-0-1). Brass, Woodwind, and Percussion. Emphasis is placed on building a music library of concert materials and methods. Wind instrument players will develop their ability to execute with facility and will study various percussion instruments of definite pitch. *Fall, Winter, Spring.*

324-325-326. APPLIED MAJOR AREA — Band Instruments (1-0-1). These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *Fall, Winter, Spring.*

331-332-333. ADVANCED PIANO (1-0-1). Students are expected to cover more advanced materials and display certain technical skills. The development of repertoire will be stressed. *Fall, Winter, Spring.*

334-335-336. APPLIED MAJOR AREA — Piano (1-0-1). These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *Fall, Winter, Spring.*

341-342-343. ADVANCED VOICE (1-0-1). The continuation of vocal technique studies in previous courses. Vocal forms in several languages will be introduced. *Fall, Winter, Spring.*

344-345-346. APPLIED MAJOR AREA — Voice (1-0-1). These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances

will be expected of the student during each year of his training. *Fall, Winter, Spring.*

407. CONDUCTING (3-0-3). A study of the techniques of conducting and interpretation. *Fall.*

410. MODERN MUSIC (3-0-3). A study of compositions written since 1900 with particular emphasis upon recent developments in form, compositional techniques, and new media of musical expression. *Fall, Winter, Spring. Elective.*

411. THEORY IV (COUNTERPOINT AND COMPOSITION) (3-0-3). A course designed to give creative experience in contrapuntal and compositional techniques in various forms of music. Prerequisites: MUS 111-112-113, 211-212-213, 307 and 311. *Fall.*

421. SENIOR BAND INSTRUMENTS (1-0-1). Brass, Woodwind and Percussion. Continued emphasis is placed on building a music library, concert materials, and methods. Stress is placed on complete mastery in playing and in public performances. *Fall.*

424. APPLIED MAJOR AREA — BAND INSTRUMENTS (1-0-1). This course is devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall.*

431. SENIOR PIANO (1-0-1). Concert repertoire and public performances will be stressed. *Fall.*

434. APPLIED MAJOR AREA — PIANO (1-0-2). This course is devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall.*

441. SENIOR VOICE (1-0-1). During this quarter, the student will concentrate primarily on perfecting his repertoire. *Fall.*

444. APPLIED MAJOR AREA — VOICE (1-0-1). This course is devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall.*

MUSIC EDUCATION (MED)

300. FUNDAMENTALS OF ELEMENTARY SCHOOL MUSIC, E.M. (3-0-3). A course in notation, scales, key signatures, ear-train-

ing, and sight-singing. Special attention is given to these elements as they apply to children's songs. Required for majors in Elementary Education. *Fall, Winter, Spring.*

301. PUBLIC SCHOOL MUSIC, E.M. (3-0-3). The singing of rote songs, the making of rhythm band instruments, playing flutes, playing the autoharp, melody bells, and resonator bells, conducting, and writing units are some of the activities in this course. Prerequisites: MUS 111, 112, 113 for Music Majors; MED 300 for majors in Elementary Education. *Fall, Winter, Spring.*

308. HIGH SCHOOL MUSIC (3-0-3). A study of the methods and materials for teaching music in Junior and Senior high schools. *Spring.*

412. SEMINAR IN MUSIC EDUCATION (1-0-1). This course is organized to assist Senior music majors with specific problems in Music Education and to prepare them to handle special projects within their area of interest. *Winter.*

DEPARTMENT OF MODERN LANGUAGES

JOSEPH C. ANDERSON, *Head*

Alethea V. Morton

The aims of the Department of Modern Languages are: (1) to develop the ability to communicate in a foreign language; (2) to instill respect for other peoples and other cultures; (3) to develop an appreciation for the artistic expressions which are found in other languages; and (4) to bring about a greater awareness of our cultural heritage. Underlying these aims is the ultimate goal of preparation for a more effective life.

LANGUAGE PROGRAMS

To realize these aims the Department offers instruction in the foreign languages (French, German, and Spanish). In addition, it offers courses leading to the degree of Bachelor of Science in Education with a concentration in French or Spanish. The language teaching program requires completion of a minimum of forty quarter hours in one foreign language, beyond the elementary courses. A student completing the degree requirements with one of these sequences may be recommended for certification to teach the language. Courses in the second year are mainly conducted in the foreign language, in the third year almost exclusively, and in the fourth year, entirely.

This Department offers also a minor in French and a minor in Spanish. The French minor comprises French 241, 242, 243, 341, 342, 343. The Spanish minor consists of Spanish 261, 262, 263, 361, 362, 363.

THE GENERAL REQUIREMENT

Students who have had no foreign language and those who present fewer than two units of high school credit normally take the elementary course. If a student has earned two or more units in a foreign language in high school and continues the study of the same language, it is recommended that he take an examination administered by the Department for placement purposes. When a student begins the study of a foreign language at the intermediate level, two courses are sufficient to meet the language requirement for graduation.

COMPREHENSIVE EXAMINATION
FOR FRENCH AND SPANISH EDUCATION MAJORS

Senior French and Spanish Education majors are required to take the National Teacher Examination as the comprehensive examination in their field.

FRENCH AND SPANISH EDUCATION

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II — Mathematics and Natural Sciences: 20 hours required	
Mathematics 107	5 hours
Biology 123-124	10 hours
Physical Science 203	5 hours
Area III — Social Science: 20 hours required	
History 101-102-200	15 hours
Political Science 200	5 hours
Area IV — Courses Appropriate to the Major: 30 hours required	
French 141-142-143 or Spanish 161-162-163	15 hours
Humanities 233	5 hours
Social Science 111-201	10 hours
Additional Requirements:	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 105 quarter hours

Major Requirements: 40 hours as specified

Modern Languages: 40 hours required

French 241-242-243 or

Spanish 261-262-263 15 hours

French 341-342-343-344 or

Spanish 361-362-363-364 15 hours

French 441 or 442, 444 or

Spanish 461 or 462, 464 10 hours

Specific Electives: 9 hours required

Humanities 234, Philosophy 300, 301, or 302 9 hours

Teacher Education Sequence: 47 hours required

Education 216, 303-304, 317, 422, 429, 430 47 hours

Electives 9 hours

Study Abroad Programs of the University System of Georgia allow for earning 15 or more hours in French or Spanish at the senior college level by summer study in France or Spain.

DESCRIPTION OF COURSES

FRENCH (FRE)

141-142-143. ELEMENTARY FRENCH. (4-2-5). For students with no previous language study. Practice in hearing, speaking, reading and writing everyday French. To be taken in sequence. *All quarters.*

201-202-203. FRENCH CULTURAL ACTIVITIES (2-0-1). Knowledge of culture to be refined through viewing and discussing films, slides, maps and charts; listening to recordings and learning songs, dances; participation in typical games; short lectures on art, history, customs; short drama production possible. Prerequisite: Present or previous enrollment in any French course. *Fall, Winter, Spring.*

241-242. INTERMEDIATE FRENCH (5-0-5). Intensive review of basic principles of the language; practice in speaking and writing based on textual readings. To be taken in sequence. Prerequisite: FRE 143 or two years high school French.

243. CONVERSATION AND COMPOSITION (5-0-5). To accustom the student to understand, speak, and write conversational French. Prerequisite: FRE 242.

341-342. SURVEY OF LITERATURE (3-0-3). Study of literature from present to past, terminating with the *chanson de geste*. Em-

phasis on such writers as Sartre, Baudelaire, Balzac, Hugo, Rousseau, Moliere, Pascal, Montaigne, Rabelais. Prose, poetry and drama. Prerequisite: FRE 242. *Fall, Winter.*

343. FRENCH CIVILIZATION (4-0-4). Acquaintance of the student with principal contributions of France to Western civilization. Prerequisite: FRE 242.

344. ORAL COMMUNICATION (5-0-5). Further development of ability to understand and speak French. Discussion of national and international topics from news media and French publications. Prerequisite: FRE 243.

345-346-347. STUDY IN FRANCE (5-0-5). One summer in the Study Abroad Program of the University System of Georgia. The student lives with a French family, takes language, literature and civilization courses and participates in extracurricular activities, including cultural tours. Prerequisite: FRE 243.

441. SEVENTEENTH CENTURY LITERATURE (5-0-5). The important plays of Corneille, Racine, and Moliere. Lectures, readings, reports and discussions. Prerequisite: FRE 342.

442. THE ROMANTIC MOVEMENT (5-0-5). Origins, history, principal authors, and influences of the Romantic Movement. Prerequisite: FRE 342.

444. TWENTIETH CENTURY LITERATURE (5-0-5). Lectures, readings, reports, discussion of principal writers and trends of French literature today. Prerequisite: FRE 342.

445. SPECIAL PROBLEMS (1 to 5-0-1 to 5). Investigation of an area of special interest to the student and instructor. Prerequisite: Consent of department head.

GERMAN (GER)

151-152-153. ELEMENTARY GERMAN (4-2-5). For students with no previous language study. Practice in hearing, speaking, reading, and writing everyday German. To be taken in sequence. *Fall, Winter, Spring.*

201-202-203. GERMAN CULTURAL ACTIVITIES (2-0-1). Knowledge of culture to be refined through viewing and discussing films, slides, maps, charts; listening to recordings and learning songs, dances; participation in typical games; short lectures on art, history, customs, short drama production possible. Prerequisite: present or previous enrollment in any German course. *Fall, Winter, Spring.*

SPANISH (SPA)

161-162-163. ELEMENTARY SPANISH (4-2-5). For students with no previous language study. Practice in hearing, speaking, reading and writing everyday Spanish. To be taken in sequence. *All quarters.*

201-202-203. SPANISH CULTURAL ACTIVITIES (2-0-1). Knowledge of culture to be refined through viewing and discussing films, slides, maps, charts; listening to recordings and learning songs, dances; participation typical games; short lectures on art, history, customs; short drama production possible. Prerequisite: present or previous enrollment in any Spanish course. *Fall, Winter, Spring.*

261-262. INTERMEDIATE SPANISH (5-0-5). Intensive review of basic principles of the language; practice in speaking and writing based on textual readings. To be taken in sequence. Prerequisite: SPA 163 or two years high school Spanish.

263. CONVERSATION AND COMPOSITION (5-0-5). To accustom the student to understand, speak, and write conversational Spanish. Prerequisite: SPA 262.

265-266. SPANISH FOR COMMUNITY WORKERS AND LAW ENFORCEMENT OFFICERS (3-1-3). Objective is development of basic comprehension and speaking ability stressing expressions used in typical situations with Latin-Americans in U.S. cities, and enhancement of student's performance potential on future job assignments. Supported by reading and writing. *All quarters.*

361-362. SURVEY OF LITERATURE (3-0-3). Introduction to some of the principal authors, works, and ideas in the literature of Spanish-speaking countries. Prerequisite: SPA 262. *Fall, Winter.*

363. SPANISH CIVILIZATION (4-0-4). To acquaint the student with the principal contributions of Spain to Western civilization. Prerequisite: SPA 262.

364. ORAL COMMUNICATION (5-0-5). Further development of ability to understand and speak Spanish. Discussion of national and international topics from news media and Spanish magazines. Prerequisite: SPA 263.

365-366-367. STUDY IN SPAIN (5-0-5). One summer in the Study Abroad Program of the University System of Georgia. The student lives with a Spanish family, takes language, literature and civilization courses and participates in extracurricular activities including cultural tours. Prerequisite: SPA 263.

461. LITERATURE OF THE GOLDEN AGE (5-0-5). Lectures, readings, reports and discussions on the principle authors of the sixteenth and seventeenth centuries. Prerequisite: SPA 362.

462. NINETEENTH CENTURY LITERATURE (5-0-5). Principal authors of the century in the novel, drama and poetry, with special attention to Modernism, Regionalism, Realism and Romanticism. Prerequisite: SPA 362.

463. SPANISH-AMERICAN LITERATURE (5-0-5). Principal authors and literary forms in the literature of Spanish America from the present to its beginnings in the colonial period. Prerequisite: SPA 362.

465. SPECIAL PROBLEMS (1 to 5-0-1 to 5). Investigation of an area of special interest to the student and instructor. Prerequisite: Consent of department head.

THE TEACHING OF FRENCH IN THE ELEMENTARY SCHOOL

FRE 141-142 ELEMENTARY FRENCH (4-2-5)
Practice in hearing, speaking, reading, and writing. Knowledge of culture disseminated by means of oral reports, films, slides, recordings, maps, and charts. Laboratory work required.

FRE 210 INTERMEDIATE FRENCH (2-1-3)
Intensive review and refinement of grammar. Continued enlargement of one's understanding of culture. Reading of French newspapers, and magazines. Laboratory work required.

FRE 230 CONVERSATION AND COMPOSITION (3-0-3)
Development of the ability to speak and write French on a near-native level

FRE 310 TEACHING OF FOREIGN LANGUAGES IN THE
EARLY ELEMENTARY SCHOOL (2-0-2)
Discussion and demonstration of various methods of teaching foreign languages with special emphasis on the audio-lingual method.

FRE 320 TEACHING OF FOREIGN LANGUAGES IN THE
MIDDLE ELEMENTARY SCHOOL (2-0-2)
Discussion and demonstration of various methods of teaching foreign languages with special emphasis on the audio-lingual method.

THE TEACHING OF SPANISH IN THE ELEMENTARY SCHOOL

SPA. 161-162 ELEMENTARY SPANISH (4-2-5)

Practice in hearing, speaking, reading, and writing. Knowledge of culture disseminated by means of oral reports, films, slides, recordings, maps, and charts. Laboratory work required.

SPA. 220 INTERMEDIATE SPANISH (2-1-3)

Intensive review and refinement of grammar. Continued enlargement of one's understanding of culture. Reading of Spanish newspapers, and magazines. Laboratory work required.

SPA. 240 CONVERSATION AND COMPOSITION (3-0-3)

Development of the ability to speak and write Spanish on a near-native level.

SPA. 310 TEACHING OF FOREIGN LANGUAGES IN THE EARLY ELEMENTARY SCHOOL (2-0-3)

Discussion and demonstration of various methods of teaching foreign languages with special emphasis on the audio-lingual method.

SPA. 320 TEACHING OF FOREIGN LANGUAGES IN THE MIDDLE ELEMENTARY SCHOOL (2-0-2)

Discussion and demonstration of various methods of teaching foreign languages with special emphasis on the audio-lingual method.



DIVISION OF NATURAL SCIENCES

MARGARET CHISHOLM ROBINSON, *Chairperson*

The philosophy and purposes of the Division of Natural Sciences are, in general, consistent with the overall philosophy of the college. Specifically, the Division accepts the responsibility to help students:

1. To gain basic preparation, knowledge and skills necessary to the satisfaction of their personal needs as well as the needs of home and society.
2. To acquire specialized training in one of the Natural Sciences, and to develop individual talents and intellectual curiosity which are essential to further study and progress.
3. To develop an understanding of mental, emotional, and physical health, and to practice habits that are conducive to sound personal and community health.

DEPARTMENT OF BIOLOGY

MARGARET CHISHOLM ROBINSON, *Head*

H. Beard
C. O. Emeh
G. Gonsoulin
F. R. Hunter

P. V. Krishnamurti
G. K. Nambiar
Harpal Singh
B. L. Woodhouse

The aims of the Department of Biology are: (1) to provide for all students that knowledge which is essential to an understanding of the biological basis of living; (2) to provide preprofessional training for persons interested in pursuing health careers such as medicine, veterinary medicine, dentistry, pharmacy, and paramedical careers such as medical technology, nursing, physical therapy, medical illustration, medical social worker, and medical secretaries; (3) to provide preprofessional study through the media of advanced courses for persons interested in careers requiring graduate work such as industrial and biological research, public health, college-level teaching, medical school teaching, secondary school teaching, and specialists in the biological sciences.

To realize these aims, the Department of Biology offers courses leading to the Degree of Bachelor of Science with a major in Biology as well as a minor.

In addition, the Department of Biology offers courses for satisfying requirements for the Bachelor of Science in Education with a concentration in Biology.

PLAN OF STUDY

Biology 123-124 is designed for non-science majors as a part of the general curriculum. The Biology Major: Biology 128, 200, 201, 202, 203, and 206 comprise the basic Modern Biology Core requirements for all students majoring in Biology, and who desire training preparatory to either medical and paramedical careers or graduate study. Subsequent to the sequential completion of the Biology Core, students are required, in counsel with academic advisors, to select an option of biology electives according to their interest and desired area of concentration. The Biology Electives Option becomes a part of the student's formal record as requirements for graduation filed in the Department and in the Registrar's Office.

Students interested in paramedical (Health) careers satisfy the two-year basic Modern Biology Core sequence and science cognates according to specific requirements of selected specialized training schools. Students are required to plan health careers curriculums with an assigned advisor.

For the major at least thirty-five quarter hours on the junior and senior levels are required. For the minor, at least twenty-five quarter hours of junior and senior level courses are required.

BIOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108	10 hours
Chemistry 101-104	10 hours

Area III — Social Sciences: 20 hours required

Social Science 201	5 hours
Political Science 200	5 hours
History 102-200	10 hours

Area IV — Courses Appropriate to Major: 30 hours required

Physics 201-202	10 hours
Biology 128, 200, 201, 202, 206	15 hours
Humanities 233, 234	5 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 105 quarter hours

Major Requirements: 55 hours as specified

Biology 301-303-304-306-351-401-402 35 hours

Major Options: 318-326-430-431 20 hours

Molecular Biology, Ecology, Marine Biology,
Microbiology, Zoology or Botany

Specific Electives:

Chemistry 303-307-308-331-404 25 hours

Mathematics 212-213 10 hours

Modern Foreign Language 15 hours

BIOLOGY EDUCATION

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109 15 hours

Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108 10 hours

Chemistry 101-104 10 hours

Area III — Social Sciences: 20 hours required

Social Science 111-201 10 hours

Political Science 200, History 200 10 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Physics 201-202-203 15 hours

Biology 128, 200, 201, 202, 203 15 hours

Additional Requirements:

Physical Education 6 hours

Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 33 hours as specified

Biology 301-303-306-307-435 28 hours

Math 217 5 hours

Specific Electives: 18 hours selected mainly from the following:

Chemistry 307-308 10 hours

Biology 302-326 8 hours

Teacher Education Sequence: 47 hours
Education 216, 303, 304, 317, 422, 429, and 430

MEDICAL TECHNOLOGY CURRICULUM

(Biology Option)

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108	10 hours
Chemistry 101-104	10 hours

Area III — Social Science: 20 hours required

History 102-200	10 hours
Political Science 200	5 hours
Social Science 201	5 hours

Area IV — Courses Appropriate to Major: 30 hours required

Physics 201-202	10 hours
Biology 128-200-201-202-203	15 hours
Mathematics 217	5 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Major Requirements: 40 quarter hours plus 52 weeks of hospital clinical laboratory training.

Biology 303-304-306-307	20 hours
Chemistry 303-307-308-404	20 hours

Clinical Laboratory Training

Fifty-two weeks of study and clinical experience in an accredited hospital laboratory are required. After completing all requirements, the degree candidate can qualify for the examination given by the Registry of Medical Technologists.

DESCRIPTION OF COURSES

BIOLOGY (BIO)

120. FRESHMAN BIOLOGY SEMINAR (2-0-2). Topics in the Biological Sciences, emphasizing the integration of Physical and Chemical phenomena with biology. Discussions will include quan-

titative aspects such as units of measurement, interpretation of experimental results, handling of graphical data, and the role of chemical reactions in the control of plant and animal growth and development. *Fall, Winter, Spring.*

123-124. GENERAL BIOLOGY (3-4-5). An introductory course for non-science majors which deals with the fundamental principles of plant and animal life. BIO 123 is prerequisite to BIO 124. *Fall, Winter, Spring.*

128. PRINCIPLES OF BIOLOGY (2-4-3). Presentation of Biology in broad perspective; to include such topics as origin of life, reproduction, heredity, interrelationship of living things to their environment. Prerequisites: CHEM 101, 104. *Spring.*

200. MOLECULAR AND CELLULAR BIOLOGY (2-4-3). Introduction to cell composition and fine structure, biosynthesis of macromolecules, enzymes structure and function, respiration, photosynthesis, transport, and the molecular basis of heredity. Prerequisite: BIO 128. *Fall.*

201. ORGANISMAL BIOLOGY (2-4-3). Relates Molecular and Cellular biology to the organismal concept, emphasizing structural and functional aspects of whole organisms (vertebrate animals and vascular plants), their development, life histories, behavior, diversity and evolution. Prerequisite: BIO 200. *Winter.*

202. BIOLOGICAL ORGANIZATION AND CONTROL. Concepts of mendelian genetics, morphology, growth and development, reproduction, tissue and organ structure, neural and endocrine control mechanisms, feedback and cybernetics are discussed. Prerequisite: 201. *Spring.*

203. CONCEPTS OF ECOLOGY (2-4-3). An introductory study of concepts and principles underlying the interrelationship of plants and animals to the environment. Laboratory experiences to involve field studies coordinated with laboratory and field methods of ecological analysis. Prerequisite: BIO 202. *Spring.*

204. ENVIRONMENTAL AND EVOLUTIONARY ISSUES (2-0-2). Major issues facing mankind from a biological perspective such as overpopulation, food supply, pollution, nuclear energy utilization, genetic basis of race, medical and hereditary issues, etc. *Fall, Winter, Spring.*

205. SELECTED TOPICS IN MODERN BIOLOGY (2-0-2). Current topics and problems which confront or support the future well-being of the human population such as the Sickle Cell Anemia problem, organ transplantation, cryosurgery, utilization of synthetic

food products, aquaculture, conception and contraception, aging, etc. *Fall, Winter, Spring.*

206. INTRODUCTION TO LIFE CHEMISTRY (3-0-3). Interdisciplinary approach to study of compounds found in living organisms, their biochemical reactions and their significance to living processes. Fundamental concepts emphasizing the contributions of biochemistry and biochemical processes to an understanding of modern biology. Prerequisites: CHE 101, 104. *Fall, Spring.*

207. BIOLOGY OF AGING: UNDERSTANDING THE GOLDEN YEARS OF LIFE (2-0-2). A study of the human body, physiological and emotional changes during the aging process, and some practical methods of adjusting to these changes. *Fall, Winter, Spring.*

208. THE INSECT WORLD (2-2-3). Practical aspects of man's relations with insects: Classification; pests & pest control insect disease vectors, insect toxins & venoms, teaching with insects, beneficial insects, aquatic insects as pollution indicators, insect behavior and social relationships, insects in biological research. *Fall.*

301. GENERAL BOTANY (3-4-5). An introduction to general principles of plant life with special emphasis given to cellular organization and control, inheritance, physiology, development, reproduction, and evolutionary relationships of flowering plants. Prerequisites: BIO 203, 206. *Winter.*

302. FIELD BOTANY (3-4-5). A study of flowering plants common to this locale, including the identification, classification, and preservation of plant specimens. Prerequisite: BIO 301. *Spring.*

303. PRINCIPLES OF GENETICS (3-4-5). Fundamental principles of Genetics: Variation, heredity, physical basis of mendelian inheritance, expression and interactions of genes, sex-linkage, linkage mutation and extra chromosomal inheritance; basic concepts related to biochemical Genetics and population Genetics. Prerequisites: BIO 203, 206. *Spring.*

304. BIOLOGICAL HISTOCHEMISTRY AND MICROTECHNIQUE (3-4-5). Theory and application of modern techniques and instrumentation to biological problems including histological preparation and preservation of biological materials. Prerequisite: BIO 303; CHE 308.

306. MICROBIOLOGY (3-4-5). An introduction to fundamental concepts and techniques of microbiology; bacterial anatomy and physiology, principles of microbial growth, nutrition, and metabolism. Prerequisite: CHE 303, 206. *Winter.*

307. HUMAN ANATOMY AND PHYSIOLOGY (3-4-5). A de-

tailed study of the location and functions of the organs in the human body. Prerequisites: CHE 303, BIO 203, 206. *Fall*.

308. PLANT MORPHOLOGY AND STRUCTURE (3-4-5). A study of the morphology of certain non-vascular and vascular plants stressing identification, life histories, ecology and evolutionary development. Prerequisite: BIO 302. *Fall*.

309. ECOLOGY (3-4-5). The structure and function of ecosystems in regard to energy flow, nutrient cycling, population growth and regulation, and community organization and dynamics. Man's impact on ecosystems and resulting social problems. Laboratory and field studies. Prerequisites: BIO 203, 206. *Spring*.

311. GENERAL OCEANOGRAPHY (3-4-5). Survey of basic principles of Physical and Meteorological Oceanography, Geological Oceanography, Chemical Oceanography, and Biological Oceanography. Emphasis placed upon interrelationship of the various branches of Marine Science and the role of the oceans in global physical and ecological cycles. Prerequisites: BIO 203, 206, PHY 202. *Fall, Spring*.

315. INVERTEBRATE ZOOLOGY (3-4-5). A study of major phyla and classes of invertebrate animals, morphology, physiology, life histories and taxonomic relationships of selected representatives of the groups. Prerequisites: BIO 203, 206. *Fall*.

318. VERTEBRATE STRUCTURE AND FUNCTION (3-4-5). (Amalgamation of Comparative Vertebrate Anatomy and Histology of Vertebrates). A comparative study of the organ systems of selected vertebrates with emphasis given to the gross anatomy of the cat; histological organization and function of vertebrate organs. Prerequisites: BIO 203, 206. *Winter*.

324. PLANT ANATOMY (3-4-5). A general consideration of the anatomy of sea plants with special emphasis on the angiosperms. Prerequisite: BIO 308. *Winter*.

326. VERTEBRATE EMBRYOLOGY (3-4-5). A study of the embryological development of vertebrates including fertilization, cleavage and origin of organ systems. Prerequisite: BIO 304. *Spring*.

328. FIELD ECOLOGY (3-4-5). An advanced field course emphasizing population ecology; methods of measuring plant and animal populations, demographic analysis and movements of organisms. Prerequisites: BIO 301, 315. *Spring*.

330. HISTORY OF BIOLOGY (3-0-3). A comprehensive study of the broad features of biological progress, sources of ideas that dominate biology, major doctrines, theories, and contributions of

outstanding scientists in preserving continuity of development in biological thought. Prerequisites: BIO 203, 206. *Fall*.

331. INSECTS: STRUCTURE, FUNCTION AND ECOLOGY (3-4-5). A study of insect structure and physiology and the nature of insect relationships with other organism and with the physical environment Prerequisites: BIO 203, 206, CHE 308. *Spring*.

332. PRINCIPLES OF BIOSTATISTICS (3-4-5). An introduction to the reasoning and applications of statistics in planning experiments and in analysis and interpretation of biological data. Special emphasis given to population statistics, samples and variates; summary of observed experiments and non-parametric significance tests. Prerequisite: BIO 203. *Fall*.

351. MOLECULAR BIOLOGY (3-4-5). Detailed analysis of structure and ultrastructure of cells; its bio-chemistry, biophysics, and physiology and molecular genetics. Prerequisites: CHEM 308. *Spring*.

400. PHYSIOLOGICAL ECOLOGY (3-4-5). A study of the anatomical, biochemical, and physiological adaptation of plants and animals to specific environments. Emphasis will be placed on the physiological problems faced by organisms common to the local salt marsh and marine environments. Prerequisites: BIO 309, CHE 308. *Fall*.

401. GENERAL PHYSIOLOGY (3-4-5). A study of functional physics-chemical occurrences in living organisms. The physiological roles of water, chemical constituents, pH, diffusion, osmosis, permeability, surface phenomena, viscosity, temperature, oxidation-reduction enzymes, and bioelectricity will be considered. Prerequisites: BIO 203, 206, CHE 308, PHY 202. *Fall*.

402. ANIMAL PHYSIOLOGY (3-4-5). A study of vertebrate systematic physiological processes. Topics to be considered are: nervous and endocrine control mechanisms, muscle contraction, digestion, circulation, respiration, bioenergetics and metabolism, excretion and receptor physiology. Prerequisites: CHE 308, BIO 401. *Winter*.

404. GENERAL PARASITOLOGY (3-4-5). A study of classification, structure, and life cycles of parasites of invertebrates and vertebrates. Prerequisites: BIO 301, 315, CHE 104. *Fall*.

406. PLANT PHYSIOLOGY (3-4-5). An introduction to cellular and organismal functions important in the life of green plants with emphasis on the physical and chemical basis of the observed properties and processes. Prerequisites: BIO 301, 302, CHE 308. *Fall*.

407. PRINCIPLES OF IMMUNOBIOLOGY (3-4-5). An introduction to the study of infection and immunity in disease em-

phasizing immunochemistry and physical and chemical methods in immunology. Prerequisite: BIO 306. *Fall*.

411. GENERAL PHARMACOLOGY (3-4-5). A study of the general principles of Pharmacology, prescription writing, drug prices, the automatic drugs, cardiovascular drugs, sedatives and hypnotics, alcohol, histamines and antihistamines, analgesic drugs and drugs affecting behavior. Prerequisites: BIO 301, 401, CHE 308, PHY 202. *Winter*.

412. GENERAL PHARAMACOLOGY (3-4-5). Continuation of Biology 411, and includes such topics as general anesthesia, local anesthetics, drugs acting on the gastrointestinal tract, diuretics, chemotherapeutic agents, chemotherapy of certain neoplastic diseases, gonadal hormones, insulin and oral hypoglycemic agents, poisons and antidotes, and pesticides. Prerequisite: BIO 411. *Spring*.

415. MARINE BIOLOGY (3-4-5). An introduction to the physiology, morphology, taxonomy, and ecology of marine organisms. A brief examination of the various marine biotopes, methods of sampling, examination and identification of marine organisms, and data processing and interpretation. Prerequisite: CHE 101, 104, 307, 308, BIO 203, 206. *Fall, Spring*.

418. PHYSIOLOGICAL CHEMISTRY (3-4-5). A course dealing with fundamentals of biological chemistry with emphasis upon chemical structure, the properties of enzymes, intermediary metabolism, energy transformation and regulation of cellular processes. Prerequisite: CHE 307, 308. *Winter*.

424. RADIATION BIOLOGY (3-4-5). A course dealing with the basic principles involved in the mode of actions of ionizing and non-ionizing radiations on the biological systems. Emphasis will be placed on the use of radiation in medicine, industry and agriculture; basic principles underlying detectors and counting instrument. Prerequisite: BIO 401. *Winter*.

425. BACTERIAL PHYSIOLOGY (3-4-5). A review of current knowledge of bacterial growth and reproduction considered at the molecular level. Study of cellular structure, growth-kinetics, the syntheses of DNA, RNA and protein, the regulation of metabolism and general cellular physiology; the patterns of energy generation and biosynthesis and their regulation. Prerequisite: BIO 306, 401. *Spring*.

426. VIROLOGY (3-4-5). A study of the biological, chemical, and physical characteristics of the viruses with emphasis on the techniques of isolation and cultivation. Prerequisite: BIO 306. *Spring*.

427. MYCOLOGY (3-4-5). A study of the ecology, physiology and

systematics of micro-fungi with emphasis on those forms which are of industrial or general economic importance. Prerequisite: BIO 306. *Winter*.

430. BIOLOGY SEMINAR (1-0-1). Designed to introduce the student to research oriented literature, research methodology, manuscript preparation, and seminar presentation. Presentation results obtained in Biology 431 research project required. Prerequisite: Junior or Senior Standing. *Fall, Winter, Spring*.

431. INTRODUCTION TO RESEARCH (2-0-2). Students will participate in staff supervised research projects. Students will participate in faculty supervised research projects. Prerequisite: Junior or Senior Standing. *Fall, Winter, Spring*.

435. BSCS LABORATORY WORKSHOP (8-0-8). A course designed especially for junior level prospective teachers of Biology. A comprehensive study of the blue, green and yellow version of BSCS high school biology. Laboratory experiences will include utilization of actual BSCS materials and apparatus. Prerequisite: Junior Standing. *Fall*.

440. SENIOR RESEARCH (3-0-3). An honors research project for students having demonstrated *exceptional* research potential. An honors research project for students having a minimum grade point average of "B" and having demonstrated exceptional research potential. Prerequisite: BIO 430, Senior Standing. *Fall, Winter, Spring*.

DEPARTMENT OF CHEMISTRY

WILLIE G. TUCKER, *Head*

Jeffrey James
Manchery P. Menon

Kamalakar B. Raut
George N. Williams

The work in the Department of Chemistry is intended to serve four purposes: (1) to provide a thorough foundation in the general courses for students who seek an understanding of the methods and achievements of the chemist; (2) to provide the needed semi-specialized preparation for students who are majoring in home economics and engineering technology; (3) to afford training for persons who plan to teach science in the secondary school; and (4) to provide preprofessional training for students who intend to study dentistry, medicine, and the like, and for those who plan to enter graduate school.

The Department of Chemistry offers the usual general courses, a minor sequence, and courses leading to the degree of Bachelor of Science with a major in chemistry. The department also offers a

Dual Degree Chemical Engineering Program whereby the student attends SSC for approximately three academic years and Georgia Institute of Technology, for approximately two academic years. (See Division of Technical Science, Dual Degree Program, Page 175.)

CHEMISTRY CURRICULUM

JUNIOR COLLEGE CURRICULUM

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108	10 hours
Biology 123-124	10 hours

Area III — Social Sciences: 20 hours required

History 101-102-200	15 hours
Political Science 200	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Chemistry 101-102-103	15 hours
Mathematics 109-212-213	15 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 60 hours as specified

Chemistry 303-304-305-307-308-309	
401-402-403-404-405-406-408-415	55 hours
Chemistry 313-409-410	3 hours
Chemistry 311-407	2 hours

Specific Electives: 35 hours

Elementary German 151-152-153	15 hours
Humanities 233	5 hours
Physics 201-202	10 hours
Mathematics Elective	5 hours

Free Elective	3 hours
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COMPREHENSIVE EXAMINATION

Senior Chemistry majors are required to take the Graduate Record Examination (Area and Aptitude tests) as the comprehensive examination in their field.

CHEMISTRY EDUCATION

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108	10 hours
Biology 123-124	10 hours

Area III — Social Sciences: 20 hours required

History 102-200	10 hours
Political Science 200	5 hours
Social Science 201	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Chemistry 101-102-103	15 hours
Math 212-213	10 hours
Education 216	5 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 45 hours as specified

Chemistry 303-304-307-308-401-402	30 hours
Physics 201-202-203	15 hours

Teacher Education Sequence: 42 hours as specified

Education 303-304-317-422-429-430	42 hours
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Electives:

Humanities 233	5 hours
Free Elective:	3 hours
Biology Elective	3 hours

MEDICAL TECHNOLOGY CURRICULUM

(CHEMISTRY OPTION)

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required
 Mathematics 107-108..... 10 hours
 Physics 201-202 10 hours

Area III — Social Sciences: 20 hours required
 History 101-102-200 15 hours
 Political Science 200 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required
 Chemistry 101-102-103 15 hours
 Biology 128-200 6 hours
 Humanities 233-234 9 hours

Additional Requirements:
 Physical Education 6 hours
 Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Major Requirements: 63 quarter hours plus 52 weeks of hospital clinical laboratory training.

Chemistry 303-304-307-308-312-350-412 27 hours

Specific Electives:

Biology 201-202-306 11 hours
 German 151-152-153 15 hours
 Social Science 201 5 hours
 Mathematics 212..... 5 hours

Clinical Laboratory Training

Fifty-two weeks of study and clinical experience in an accredited hospital laboratory are required. After completing all requirements, the degree candidate can qualify for the examination given by the Registry of Medical Technologists.

DESCRIPTION OF COURSES

CHEMISTRY (CHE)

101. GENERAL INORGANIC CHEMISTRY (4-3-5). An introduction to the fundamental principles of chemistry with laboratory experiments designed to supplement class room lectures. *Fall, Winter, Summer.*

102. GENERAL INORGANIC CHEMISTRY (4-3-5). A continuation of chemistry 101 that includes a broad and general discussion of the chemistry of metals and non-metals, study of the properties of solutions, chemical kinetics, coordination compounds and the properties of liquids and solids. Basic concepts of organic chemistry, nuclear chemistry and biochemistry are discussed. *Winter, Spring, Summer.*

103. GENERAL INORGANIC CHEMISTRY (2-9-5). Theory and laboratory practice in the fundamentals of analytical chemistry. The systematic separation and identification of cations and anions. Prerequisite: CHE 101 or 102. *Fall, Spring.*

104. GENERAL INORGANIC CHEMISTRY (2-9-5). Designed for the biology major whose curriculum requires only two quarters of general chemistry. Treats certain topics of CHE 102 and CHE 103 dealing with the theory and methods of qualitative analysis. Prerequisite: CHE 101. *Winter.*

115. CHEMICAL CALCULATIONS (1-0-1). An introduction to the use of mathematics in chemistry.

303. ANALYTICAL CHEMISTRY (3-6-5). Theory and practice of volumetric methods of analysis involving the following titrations: precipitation, potentiometric acid-base, complexometric, non-aqueous and redox. Prerequisite: CHE 103 or 104.

304. ANALYTICAL CHEMISTRY (3-6-5). Gravimetric methods of analysis involving quantitative separations by volatilization, qualitative precipitation, extraction, and chromatography. Prerequisite: CHE 103 or 104.

305. INSTRUMENTAL METHODS OF ANALYSIS (2-6-4). Covers the theory, techniques and methods of analysis using modern instruments. Potentiometric, conductometric, spectrophotometric (including infra-red), polarographic, and chromatographic methods of analysis are practiced in the laboratory. Prerequisites: CHE 303-304. *Winter.*

307. ORGANIC CHEMISTRY (3-6-5). Preparations, tests, and properties of carbon compounds. Aliphatic compounds are emphasized. Prerequisite: Ten quarter hours of college chemistry. *Fall, Summer.*

308. ORGANIC CHEMISTRY (3-6-5). Continuation of chemistry 307, with emphasis on aromatic and heterocyclic compounds. Prerequisite: CHE 307. *Winter, Summer.*

309. QUALITATIVE ORGANIC ANALYSIS (3-6-5). Chemical and physical properties of organic compounds are used in the laboratory for the purpose of separating and identifying them. Prerequisite: CHE 308. *Spring.*

310. THE CHEMISTRY OF TEXTILES (3-6-5). The chemical make-up of certain natural and man made fibers is studied. Prerequisite: CHE 307. *Spring.*

331. BIOPHYSICAL CHEMISTRY (4-3-5). Designed for pre-medical students and students in biological sciences or related

disciplines. General topics of discussion in the course are colligative properties of solutions, thermodynamics, rates and mechanism of enzyme-catalyzed reactions, colloids, and transport phenomena in liquids. Prerequisite: Junior standing. *Winter*.

350. BIOCHEMICAL ANALYSIS (3-6-5). Chemistry of biochemical substances such as carbohydrates, proteins, fats, enzymes and vitamins with special emphasis on the laboratory techniques of identification and analysis.

401. PHYSICAL CHEMISTRY (3-3-4). Study of the behavior of gases, gas laws, kinetic theory of gases, thermochemistry, thermodynamics and homogeneous and heterogeneous chemical equilibria. Application of physical principles to the solution of chemical problems is highly emphasized. Prerequisites: MAT 213, PHY 202. *Fall*.

402. PHYSICAL CHEMISTRY (3-3-4). A continuation of CHE 401 and includes such topics as atomic and molecular structure, quantum theory, chemical bonding, phase equilibria and properties of solutions. Prerequisite: CHE 401. *Winter*.

403. PHYSICAL CHEMISTRY (3-3-4). A continuation of CHE 402, that deals with chemical kinetics, electrochemistry, phase rule, surface chemistry and also the properties of solids and liquids. Prerequisite: CHE 402. *Spring*.

404. BIOCHEMISTRY (3-6-5). The chemistry of carbohydrates, lipids, proteins, mineral elements and water. Prerequisite: CHE 307. *Fall, Spring*.

405. BIOCHEMISTRY (3-0-3). Chemistry of vitamins, enzymes, hormones and mechanisms of digestion and animal and plant metabolism will be studied. Prerequisite: CHE 404. *Winter*.

406. BIOCHEMICAL PREPARATIONS (0-3-1). Isolation and identification of compounds from natural products and synthesis of compounds with possible biochemical importance. Prerequisite: CHE 404. *Fall, Winter, Spring*.

311-407. INTRODUCTION TO RESEARCH IN CHEMISTRY. (0-3-1). Designed to acquaint the student with techniques used in simple research problems. Examination of chemical literature and experimental work. Prerequisites: Junior standing in chemistry and consent of the staff. *Fall, Winter, Spring*.

312-408. CHEMICAL SEMINAR (1-0-1). Modern development in specific subdivisions of the field of chemistry are considered. Prerequisite: Junior or senior standing.

313-409-410. ORGANIC PREPARATIONS (0-3-1). Preparations

involving selected syntheses and name reactions. Prerequisite: CHE 308. *Fall, Winter, Spring.*

411. RADIOISOTOPE TECHNOLOGY (3-3-4). Provides a basic understanding of the nuclear atom, knowledge of the detection and measurement of radioactivity, and also includes a study of the many applications of radioisotopes in chemistry, biology, geology, etc. Prerequisite: Junior standing in the major field. *Winter.*

415. CHEMICAL LITERATURE (1-0-1). Involves the use of the library in general and the procedures to obtain chemical information in particular by referring to abstracts and journals. *Spring.*

DEPARTMENT OF MATHEMATICS, PHYSICS, AND COMPUTER SCIENCE

JOHN B. CLEMMONS, *Head*

Venkataraman Ananthanarayanan
Jacquelyn M. Byers
Kailash Chandra
Gian Ghuman
Timothy Goodwin
Sigmund N. Hudson

Jacob Engelhardt
Prince A. Jackson
Walter W. Leftwich
LeRoy Michael
Dorothy D. Smith
George Thomas

The aims of the Department of Mathematics and Physics are: (1) to offer all students an opportunity for acquiring those basic skills which are needed for successful living, together with an appreciation of the contributions of these sciences to the cultural heritage; (2) to equip students in business administration and the natural and technical sciences with the means of developing logical thought procedures and insight into physical laws — all of which constitute essential tools in the several fields; (3) to provide training through advanced courses for students preparing to undertake the study of science and engineering, and for those planning to enter graduate school; and (4) to assure adequate preparation in both content and instructional skills for prospective teachers in the secondary school.

The Department offers a major in Mathematics for students who are interested in work with industry or government service. In addition, majors for students interested in teaching are offered in Mathematics Education, Earth Science Education and Physics Education. The Department has designed its program so that its graduates may have a background to seek advanced degrees in mathematics. The Department also offers minors in Mathematics, in Computer Science, and in Physics, as outlined on following page.

Mathematics Minor:

Mathematics 107-108-109-212-213.....	25 hours
Mathematics Electives	5 hours

Physics Minor:

Physics 201-202-203.....	15 hours
Physics 410	4 hours
Physics Electives	10 hours
(Chosen from Physics 306, 307, 308, 310, 312, 499)	

NOTE: Mathematics Majors as well as any other student may minor in Physics.

Computer Science Minor for Students with a Science Major:

Mathematics 200-201-250-251-413.....	20 hours
Computer-Science Electives	10 hours
(Chosen from Mathematics 270, 303, 360, 370)	

Computer Science Minor for Students with Business Major:

Mathematics 200-201-260-261-250-270-380.....	30 hours
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Computer Science Minor for Students with Other Major:

Mathematics 108-200-210-250-303-270.....	30 hours
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It is preferable that the Physics minor be taken in combination with a major requiring at least 10 quarter hours of chemistry, 5 quarter hours of college algebra, 5 quarter hours of trigonometry and 10 quarter hours of differential and integral calculus. The minor should begin with Physics 201.

In cooperation with Howard University, a major in Physics is offered. A student with a minor in Physics will receive a degree of Bachelor of Science with a major in Physics after taking six upper level physics courses at Howard University in one semester and two summers (ten weeks each).

In cooperation with Georgia Institute of Technology, a Dual Degree Program is offered, whereby undergraduate students can attend Savannah State for approximately three years and then attend the Institute for approximately two years. Upon completion of the program the student will receive baccalaureate degrees from both institutions. More details on this program are listed on pages 177-178.

MATHEMATICS CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Science: 20 hours required
 Mathematics 108-109..... 10 hours
 Physics 201-202 10 hours

Area III — Social Sciences: 20 hours required
 History 101 5 hours
 Political Science 200 5 hours
 Economics 201 5 hours
 History 200 5 hours

Area IV — Courses Appropriate to Major: 30 hours required
 Mathematics 200-201..... 5 hours
 Mathematics 212-213-214..... 15 hours
 Humanities 233 5 hours
 Social Science 201 5 hours

Additional Requirements
 Physical Education 6 hours
 Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 100 quarter hours

Major Requirements: 45 hours as specified
 Mathematics 315-316-318-319-404-411..... 30 hours
 Selected upper level mathematics
 courses 15 hours

Minor Requirement 30 hours

Specific or Recommended Electives: 25 hours
 Physics 203 5 hours
 Modern Languages 15 hours
 Electives 5 hours

MATHEMATICS EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required
 English 107-108-109 15 hours
 Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required
 Mathematics 108-109..... 10 hours
 Physics 201-202 10 hours

Area III — Social Sciences: 20 hours required
 History 101 5 hours

Political Science 200	5 hours
Economics 201	5 hours
History 200	5 hours
Area IV — Courses Appropriate to Major: 30 hours required	
Mathematics 212-213-214	15 hours
Education 216	5 hours
Humanities 233	5 hours
Social Science 201	5 hours
Additional Requirements:	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 99 quarter hours

Major Requirements: 50 hours as specified

Mathematics 315-316-319-321-402	25 hours
Mathematics 409, 410, or 411	5 hours
Mathematics 200, 201, 217	10 hours
Physics 203-310	10 hours

Teacher Education Sequence: 42 hours

Education 303-304-317-422-429-430	42 hours
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Electives

7 hours

EARTH SCIENCE EDUCATION

JUNIOR COLLEGE CURRICULUM

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108	10 hours
Chemistry 101-102	10 hours

Area III — Social Sciences: 20 hours required

History 102-200	10 hours
Social Science 201	5 hours
Political Science 200	5 hours

Area IV— Courses Appropriate to the Major: 30 hours required

Physical Science 204	5 hours
Physics 201-202 or 203	10 hours
Earth Science 221-223	10 hours
Biology 128	5 hours

Additional Requirements

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 28 hours required

Earth Science 300-320-404-420-440-490-499	28 hours
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Specific Electives: 23 hours

Chemistry 307	5 hours
Earth Science Electives	8 hours
Biology 306	5 hours
Mathematics 212	5 hours

Teacher Education Sequence: 47 hours

Education 216-303-304-317-422-429-430	47 hours
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PHYSICS CURRICULUM

A student may earn a major in Physics at Savannah State College by completing the following physics courses under the cooperative program with Howard University. These courses or their equivalent can be taken either at Savannah State College or at Howard University. The list below gives some of the courses presently available at Savannah State College as well as those tentatively developed by Howard University for this program.

LIST OF COURSES

General Physics	201-202-203
Mathematical Physics	310
Mechanics and Heat	306
Optics	307
Electricity and Magnetism	308
Electronics	312
Modern Physics	410
Physics Research	499

Junior Laboratory
Senior Laboratory
Advanced Laboratory
Thermodynamics
Computer Programming
Senior Thesis

After a student is admitted to the program, he/she will be advised about the specific requirements to complete this curriculum at periodic intervals.

PHYSICS EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 108-109	10 hours
Chemistry 101-102	10 hours

Area III — Social Sciences: 20 hours required

History 101-102	10 hours
Social Science 201	5 hours
Political Science 200	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Physics 201-202-203	15 hours
Chemistry 103, Biology 128, Mathematics 200	5 hours
Mathematics 212-213	10 hours

Additional Requirements

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM

Requirements: 98 quarter hours

Major Requirements: 44 hours as specified

Physics 310	5 hours
Physics 306, 307, 308, 312	12 hours
Physics 410, 499	7 hours
Mathematics 250	5 hours
Biology 301, 309, Chemistry 305, Earth Science 320	5 hours
Mathematics 214-404	10 hours

Teacher Education Sequence: 47 hours

Education 216-303-304-317-422-429-430	47 hours
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General Electives (Major or Minor)	7 hours
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DESCRIPTION OF COURSES

MATHEMATICS (MAT)

99. BASIC MATHEMATICS (5-0-5). A basic requirement for students who do not achieve satisfactorily on the placement examination. The number systems; measurements; equations; form-

ulas, verbal analysis of problems; measurements; of angles, triangles, circles and polygons. *Fall, Winter, Spring.*

107. COLLEGE ALGEBRA (5-0-5). This course presents certain topics in algebra and trigonometry in a form that will make them most useful for a later study of analytic geometry and calculus. The system of real numbers, functions, exponential and logarithmic functions, complex numbers. *Fall, Winter, Spring.*

108. COLLEGE ALGEBRA AND TRIGONOMETRY (5-0-5). The complex numbers, the theory of equations, systems of equations, permutations and combinations, the binomial theorem and probability, sequences, inverse functions and trigonometric equations. Prerequisite: MAT 107. *Fall, Winter, Spring.*

109. PLANE ANALYTIC GEOMETRY (5-0-5). Elementary concepts of plane analytic geometry; the locus derivation and the straight line; introduction to curve stretching; conics, transcendental curves; polar coordinates; parametric equations. Prerequisites: MAT 108. *Fall, Winter, Spring.*

110. MATHEMATICS FOR BUSINESS STUDENTS (5-0-5). This course is designed to meet the mathematical needs of business students who have completed the general education mathematics sequence. The course is designed to review and supplement the knowledge gained in MAT 107. There is ample review, in the course, of such concepts as functions, domain and range, relations, systems of equations, exponents, radicals, and logarithms, simple and compound interest, and matrices. There is also an elementary introduction to techniques of differentiation and integration. Prerequisite: MAT 107. *Fall, Winter, Spring.*

212. ANALYSIS I (5-0-5). (Analytic Geometry and Differential Calculus) Designed to present an integrated approach to analytic geometry and differential calculus. Basic concepts of analytic geometry, graphs and functions, basic concepts of calculus, the derivative, applications to curve tracing, maxima and minima, velocity, acceleration, rates, differentials, approximate values. Prerequisite: MAT 108. *Fall, Winter, Spring.*

213. ANALYSIS II (5-0-5). (Analytic Geometry and Integral Calculus) Integration, the integral as limit of a sum, geometrical applications of integration, physical application, derivatives of trigonometric functions, polar coordinates, conic sections, logarithmic and exponential functions, formal integration. Prerequisite: MAT 212. *Fall, Winter, Spring.*

214. ANALYSIS III (5-0-5). Further applications of integrals, improper integrals, L'Hospital's Rule, sequences, limits, series, con-

vergence tests, Taylor series, power series. Prerequisite: MAT 213. *Spring*.

217. INTRODUCTION TO PROBABILITY AND STATISTICS (5-0-5). Mean, median, mode, range, variance and standard derivation of raw and grouped data; probabilities; correlations; the normal distribution; the t-distribution; statistical inference, including the pooled t-test, the one-way and two way analysis of variance, the chi-square test. Non-parametric statistics including the Wilcoxon matched pairs signed pairs ranks test; other test. Prerequisite: MAT 107. *Winter*.

311. MATHEMATICS OF FINANCE (5-0-5). Consumer mathematics for prospective secondary teachers. Ratio, proportion, and percentage applied to commercial problems; compound interest and compound discount; ordinary and other types of annuities; amortization and sinking funds; valuation of bonds; mathematics of depreciation; life annuities and life insurance; income tax returns.

315. MODERN ALGEBRA (5-0-5). Basic concepts (sets, ordered pairs, product and relations, functions and mapping, binary operations, abstract systems, etc.), the number systems, decompositions of integers, Diophantine problems, congruence, permutations. Prerequisite: MAT 213. *Fall*.

316. MODERN ALGEBRA (5-0-5). Designed to develop further topics in modern algebra. Group rings, domain, fields, polynomial rings. Galois theory. Prerequisite: MAT 315. *Winter*.

318. ADVANCED PROBABILITY (5-0-5). Extension of topics introduced in MAT 217, with applications in such fields as education, economics, and finance. Topics include study of sets, probability in finite sample spaces, random variables binomial distribution and applications, estimating and testing variability, analysis of variance, and decision theory. Prerequisite: MAT 213. *Spring*.

319. LINEAR ALGEBRA (5-0-5). Vectors in the space and in the plane; linear dependence of vectors; geometry of the real vector space; transformations relative to different bases; Prerequisite: MAT 213. *Winter*.

320. THEORY OF EQUATIONS (5-0-5). Complex numbers; elementary theorems on the roots of an equation; constructions with rulers and compasses; cubic and quadratic equations; the graph of an equation; isolation of the real roots; solution of numerical equations; determinants — systems of linear equations; symmetric functions; elimination, resultants and discriminants; fundamental theorem of algebra.

321. INTRODUCTION TO HIGHER GEOMETRY (5-0-5). De-

signed to give a modern view of geometry, including a critical study of Euclidean geometry treated from an axiomatic viewpoint, as well as the study of non-Euclidean systems. Prerequisite: MAT 213. *Winter*. (even years).

399. ARITHMETIC FOR ELEMENTARY SCHOOL TEACHERS (5-0-5). Designed to give the prospective teacher substantial knowledge of arithmetic, teaching aids, and practice in modern methods of teaching the subject. Terms used in arithmetic; the four fundamental operations, common and decimal fractions.

400. MODERN MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS (5-0-5). Recent trends in elementary school mathematics. Emphasis on logic, critical thinking, and development of the number system. Review of the fundamentals of arithmetic; visual aids in the teaching of arithmetic.

401. TESTING AND STATISTICAL ANALYSIS FOR TEACHERS (5-0-5). Designed to give teachers in all fields essential knowledge of tests, experience in administering tests, and practice in evaluating test results according to current standards.

402. MODERN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (5-0-5). Modern trends in Mathematics curricula, number bases, modular arithmetic, mathematical systems, empirical probability, basic definitions of sets, the use of sets in elementary algebra, the use of deductions in algebra, an introduction to abstract algebra, geometry for junior high schools, structure of a first course in geometry, number scales and perspective topology.

404. DIFFERENTIAL EQUATIONS (5-0-5). Differential equations-orders and degree; solutions of differential equations; constants of integration; verification of solutions of differential equations; differential equations of the first order and of the first degree; two special types of differential equations of higher order; linear differential equations of higher order with constant coefficients; compound interest law; applications to problems in mechanics; series solutions to differential equations. Prerequisite: MAT 214. *Winter*.

409. GENERAL POINT SET TOPOLOGY (5-0-5). Designed to introduce the concepts of point set topology. Course includes introductory set theory, the real line, topological spaces, arcs and curves. partitionable spaces, and the axiom of choice. Prerequisite: MAT 214.

410. INTRODUCTION TO REAL VARIABLE THEORY (5-0-5). This course is designed to provide experiences in the Theory of Dedekind cuts, the existence of g.l.b. and l.u.b. sequences of numbers and various theorems. Topics include numbers and convergence topological preliminaries, limits, continuity and differential close up

ability, the Riemann Integral, sequences and series, functions of several real variables. Prerequisite: MAT 214.

411. ADVANCED CALCULUS (5-0-5). Vectors, lines, planes, vector calculus, functions of several variables, limits and continuity, partial derivatives and gradients, applications of gradients, double and triple integrals, line integrals. Prerequisite: MAT 214. *Fall*.

420. HISTORY OF MATHEMATICS (3-0-3). The history of mathematics from earliest time through the development of calculus, with mathematical problems from many of the periods and cultures. Prerequisite: MAT 214. *Spring* (odd years).

498. NEWTONIAN SEMINAR (2-0-2). This course is designed for students who wish to participate in mathematics seminars for credit. Juniors and Seniors. Prerequisite: MAT 214. *Fall, Winter, Spring*.

499. MATHEMATICAL RESEARCH. This course is designed for mathematics majors who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor, and the specific content of the course is directed by the supervising instructor. Prerequisite: student must have earned a total of 130 quarter hours, including a minimum of thirty hours in mathematics. *Fall, Winter, Spring*. Credit, one to three quarter hours.

EARTH SCIENCE (ESC)

221. EARTH SCIENCES (3-4-5). Earth as a planet; features of the globe; rocks and minerals. Natural processes acting on the earth's surface, and the resulting land forms. Includes the composition, movements and displacements of the earth's crust; and the action of streams, waves, wind, atmosphere, glaciers and volcanoes. Ocean action; geologic time and presence of isotopes; our earth's resources. Prerequisite: Advanced standing and some knowledge of Physics and Chemistry. (May be used to satisfy elective units in general science, general education and teacher education.)

223. ASTRONOMY AND SPACE SCIENCE (3-4-5). Historical development of astronomy; the tools and methods of the astronomer; the earth, the moon and the solar system. Stellar systems, galaxies and cosmology. History of space exploration, space flight and earth's environment. Space propulsion systems, life-support systems, and space application. *Spring*.

320. INTRODUCTION TO METEOROROLOGY (3-4-5). The atmosphere, its composition and density. Heating of land and water; air in motion and its circulation patterns. Role of atmospheric temperature, pressure and humidity distribution; fog and clouds.

Thunderstorms, tornadoes and hurricanes. Prerequisite: PHY 202-202. *Fall*.

420. WEATHER AND CLIMATE (3-4-5). Why winds blow. Moisture in the atmosphere. Radiation; stability. Winds and pressure. The general circulation. Weather maps. Extratropical cyclones and waves. Interrelationships among the physical processes of weather. Weather and man. Climatic change. Prerequisite: ESC 320. *Winter*.

425. INTERACTIONS OF GLOBAL ENVIRONMENT (3-2-4). Man's activities affecting the equilibrium of atmosphere, hydrosphere, biosphere, and lithosphere. Discussion of natural cycles such as the energy cycle; the water cycle; the carbon cycle; the oxygen cycle; the nitrogen cycle, the sulfur cycle and the phosphorus cycle. Preservation of man's healthy environment. Prerequisites: CHE 101-102 and GEO 300 or equivalent.

490. SPECIAL PROBLEMS IN EARTH SCIENCES (0-6-2). Study of literature, laboratory or field investigation of a selected topic and presentation of a written report or a seminar. Prerequisite: Junior or senior standing.

499. RESEARCH IN EARTH SCIENCES (0-6-2). Laboratory and field investigation of a selected research problem and preparation of a written report. Prerequisite: Junior or senior standing.

GEOLOGY (GEO)

300. PRINCIPLES OF GEOLOGY (3-4-5). Identification of rocks and minerals; geological processes such as weathering, erosion, glaciation, earthquakes, volcanoes, mountain building, etc. The earth's interior, introduction to geologic maps, and historical aspects of geology. (May be used as elective units in Civil Technology, Naval Science, and Teacher Education). *Fall and/or Winter quarter*.

310. MINERAL RESOURCES (3-0-3). A study of formation of various minerals in the earth's environment and mineral deposits. Minerals in relation to soil development, nutrient availability, and topography.

400. STRATIGRAPHY (3-4-5). Description and genesis of stratified sedimentary rock units and the tectonic setting. Principles of geologic mapping. Prerequisite: GEO 300.

404. MARINE AND ENVIRONMENTAL GEOLOGY (3-4-5). Geophysical techniques for exploration of the sea floor. Pelagic and Abyssal plain sediments. Igneous rocks and the structure of the ocean basins. Polar wandering and continental drift. Earth processes. Engineering properties of rocks and soils. Earth resources.

Geologic consequences of industrialization. Conservation and Management. Prerequisite: GEO 300. *Winter*.

406. STRUCTURAL GEOLOGY (2-2-3). Introductory description of the structural features of rocks and their analysis. Deformation of the earth's crust during tectonic and metamorphic activity. Prerequisite: GEO 300 or equivalent.

408. GEOMORPHOLOGY (2-2-3). Sculpture of the earth's surface by natural processes. Weathering sequence, erosion and development of soil profile. Surficial processes and the evolution of land forms. Prerequisite: GEO 300 and/or GEO 406.

410. PETROLOGY AND PETROGRAPHY (3-4-5). Composition, distribution and origin of rocks. Laboratory examination of common igneous, sedimentary and metamorphic rocks; use of petrographic microscope, study of metamorphic zoning, and physical and mineralogical analysis of sediments. Prerequisite: GEO 300.

430. INTRODUCTION TO GEOPHYSICS (3-2-4). Origin of the earth and solar system. Earth's interior and its physical parameters. Geochronology. Heat flow, seismicity, gravity field, magnetic field, and paleomagnetism. Physics of the upper atmosphere. Continental drift. Prerequisites: PHY 202 and GEO 300.

440. INTRODUCTION TO GEOCHEMISTRY. (3-2-4). Chemical principles of geologic processes. Origin and distribution of chemical elements and isotopes in the earth, its waters and atmosphere. Age of the earth and crustal evolution. Phase transformations at pressures and temperatures found in the earth's interior and the surface. Prerequisite: CHE 101-102 and GEO 300. *Spring*.

PHYSICAL SCIENCE (PHS)

203. PHYSICAL SCIENCE (3-4-5). This course is designed to furnish the student with a knowledge of scientific facts and scientific laws pertaining to the physical universe.

204. PHYSICAL GEOGRAPHY (3-4-5). The Earth in Space, its form, the geographic grid, and map projections. Atmosphere, oceans, ocean tides, and the eclipses, climate, soils and vegetation. Temperature; latitude; Heat budget of the earth. The earth's crust and its relief forms.

PHYSICS (PHY)

201. GENERAL PHYSICS (3-4-5). An introduction to mechanics and heat. Emphasis is placed upon concepts and the methods used by physicists to understand and correlate physical processes. Stu-

dents enrolled in this course should have command of algebra and trigonometry. *Fall*. Prerequisite: MAT 107.

202. GENERAL PHYSICS (3-4-5). Wave phenomena as sound and light are investigated. Prerequisite: PHY 201. *Winter*.

203. GENERAL PHYSICS (3-4-5). Magnetism, electricity, and some aspects of modern physics (atomistics) are covered. Prerequisite: PHY 201. *Spring*.

306. ADVANCED MECHANICS AND HEAT (2-4-4). Prerequisites: PHY 201 and MAT 213. *Fall*.

307. ILLUMINATION AND OPTICS (2-4-4). Prerequisites: PHY 202 and MAT 213. *Winter*.

308. MAGNETIC AND ELECTRICAL MEASUREMENTS (2-4-4). Prerequisites: MAT 213 and PHY 203.

310. MATHEMATICAL PHYSICS (5-0-5). Designed to develop an understanding of the concrete relationship between those factors that contribute to various particular phenomena; qualitative and quantitative relationships. Prerequisites: MAT 213 and PHY 201, 202 or 203.

312. INTRODUCTION TO ELECTRONICS (2-4-4). Testing basic components of electronic circuits — tubes, transistors, relays, capacitors, inductors, transformers, microphones, etc; constructing and testing radio receivers, transmitters, amplifiers, power supplies, and control apparatus; work with vacuum tube voltmeters, frequency generators, oscilloscopes, tube testers, field strength meters, etc. Prerequisites: Physics 203 and MAT 108.

410. MODERN PHYSICS (4-0-4). Recent advances in atomic and nuclear physics. Prerequisite: MAT 213 and at least one advanced physics course of four or more quarter hours. *Spring*.

499. INTRODUCTION TO RESEARCH IN PHYSICS (3-0-3). The student will be introduced to the techniques and procedures used in Physics research problems and initiated in the examination of literature. Prerequisite: Junior standing in Mathematics and Physics and consent of the instructor. At least one 300 or 400 level Physics course must have been completed.

COMPUTER SCIENCE (MAT)

200. INTRODUCTION TO COMPUTER SCIENCE (3-0-3). A study of the background and basic concepts of the computer and its use. An introduction to the fundamentals of programming in BASIC

via the terminal, and an introduction to the creation and manipulation of files. Prerequisite: MAT 107. *Fall, Winter, Spring.*

201. COMPUTERS IN SOCIETY (2-0-2). No mathematical background required. An introduction to the history and evolution of the computer, and to the use of the computer in helping man to solve problems. A consideration of some of the ways in which the computer influences social organizations and individuals. *Fall, Winter, Spring.*

210. COMPUTER METHODS FOR HUMANISTIC PROBLEMS (5-0-5). No mathematical or scientific background presumed. An introduction to elementary digital programming in an appropriate language with emphasis on utilizing existing "library" programs to solve problems arising in the humanities and social sciences. The class is divided into interest-groups from all areas of the humanities and social sciences, with each group solving problems related to its discipline. Prerequisite: MAT 201.

250. COMPUTER PROGRAMMING IN A NUMERICAL LANGUAGE I (5-0-5). An introduction to numerical calculations with, and methods of treatment of experimental data. A complete introduction to FORTRAN Programming is included. Applications and order of treatment are chosen to illustrate the various major programming constructions as they arise. Prerequisite: MAT 108. *Fall, Winter, Spring.*

251. COMPUTER PROGRAMMING IN A NUMERICAL LANGUAGE II (5-0-5). Extension of the subject matter covered in MAT 250 to include subprograms and arrays. Scientific Packages are introduced and used. Computer concepts are used to solve problems arising in the various scientific disciplines. Prerequisite: MAT 250. *Winter.*

260. COMPUTER PROGRAMMING IN A BUSINESS LANGUAGE I (5-0-5). An introduction to data processing of card files. A complete introduction to COBOL is included. This course is intended for business-oriented students. Applications will be in the areas of business and administrative data processing. Prerequisite: MAT 200. *Winter.*

261. COMPUTER PROGRAMMING IN A BUSINESS LANGUAGE II (5-5-5). Extension of the subject matter covered in MAT 260, to include creation and processing of data files on a random access device. Prerequisite: MAT 260. *Spring.*

270. SIMULATION AND COMPUTATIONAL STATISTICS (5-0-5). The computer will be used as a tool to implement various probabilistic and statistical concepts to include an introduction to simulation techniques. Prerequisite: MAT 250. *Spring.*

303. METHODS AND MODELS (5-0-5). Mathematical concepts, notations, and methods commonly used in the social and behavioral sciences, with emphasis on real problem solving. This course is an analogue to MAT 210, except that the emphasis is upon the student creating his own programs to solve specific problems. This should be considered a course for juniors or seniors. Prerequisite: MAT 250.

360. COMPUTER PROGRAMMING IN A MACHINE LANGUAGE (5-0-5). This course emphasizes the relationship between computer hardware and software as exhibited by the assembly language. Topics include: concepts and properties of a logarithm, computer structure and flow of control; instructional codes; various OP codes; pseudo OPs, macros; Input-output; subroutines. Prerequisites: MAT 251 or 261.

370. SCIENCE AND ENGINEERING MATHEMATICS (5-0-5). A study of computer-generated solutions to problems arising in the technical and physical sciences. Topics include: sequences; functions and derivatives; differential equations, logarithms and exponential functions. Prerequisites: MAT 212 or 250.

380. LINEAR PROGRAMMING (5-0-5). A consideration of various optimization problems from the fields of business and finance that have Linear Programming formulations; emphasis is on computer techniques for solving these problems. Prerequisite: MAT 250. *Fall (odd years).*

413. NUMERICAL ANALYSIS (5-0-5). Topics to be selected from: solving systems of linear equations; Gauss-Seidel and Jacobi methods; error analysis; approximating functions by infinite series; iteration techniques, techniques of integration, to include trapezoidal and Simpson's rules. Prerequisites: MAT 213 or 251. *Fall (even years).*

DIVISION OF NAVAL SCIENCE

*ALVIN N. CATALANO, II, CDR, USN, *Chairman*
JOHN K. SLAVEN, CDR, USN, *Prospective Chairman*

Edward Clark, Jr., LCDR USN Patricia E. Clemons, LT, USN
Larry G. Clarke, Capt. USMC Russell L. Williams, LT, USN
Joel L. Turman, GySGT, USMC Robert F. Gavan, QMCS, USN

The Naval Reserve Officers' Training Corps academic program is designed to prepare selected students for commissioned service as regular or reserve officers in the Navy or Marine Corps.

In support of this purpose the basic and primary mission of the NROTC program is as follows:

To develop Midshipmen morally, mentally and physically and to imbue them with the highest ideals of duty, honor and loyalty in order to commission college graduates as officers who possess a basic professional background, are motivated toward careers in the Naval Service and have a potential for future development in mind and character so as to assume the highest responsibilities of command, citizenship and government.

The primary objectives of the NROTC Program are to provide NROTC students with:

- (1) an understanding of the fundamental concepts and principles of naval science;
- (2) a basic understanding of associated professional knowledge;
- (3) an appreciation of the requirements for national security;
- (4) a strong sense of personal integrity, honor, and individual responsibility; and
- (5) an educational background which will allow the midshipman to undertake successfully, in later periods of his career, advanced/continuing education in a field of application and interest to the Naval Service.

ORGANIZATION OF THE PROGRAM

The Naval Reserve Officers Training Corps academic program consists of three parts:

*Departs 1 September 1978

- (1) The academic major field of study
- (2) Navy/Marine Corps specified college courses
- (3) Navy/Marine Corps minor programs (3 options)

MINOR PROGRAMS

Navy Scholarship: (69 hours)

¹ NSC 101-102-103	0 hours
¹ NSC 201-202-203	0 hours
¹ NSC 301-302-303	0 hours
¹ NSC 401-402-403	0 hours
NSC 104	5 hours
NSC 204	5 hours
NSC 205-206	2 hours
NSC 304-305	6 hours
NSC 306	3 hours
NSC 404-405	5 hours
² HIS 201	5 hours
² PSC 201	5 hours
² MAT 200	3 hours
MAT 212-213-214	15 hours
PHY 201-202-203	15 hours

Navy College Program: (non-scholarship) (41 hours)

¹ NSC 101-102-103	0 hours
¹ NSC 201-202-203	0 hours
¹ NSC 301-302-303	0 hours
¹ NSC 401-402-403	0 hours
NSC 104	5 hours
NSC 204	5 hours
NSC 205-206	2 hours
NSC 304-305	6 hours
NSC 306	3 hours
NSC 404-405	5 hours
³ HIS 201	5 hours
³ PSC 201	5 hours
³ MAT 200	5 hours

¹Fulfills 6 hour physical education graduation requirement for students completing program.

²Optional for Scholarship students who are enrolled in engineering, chemistry, mathematics, or physics majors, or who have completed one course in chemistry, and one course from computer science, thermodynamics, electricity, and differential equations in addition to one year of engineering level calculus and physics. All scholarship students not majoring in engineering, chemistry, mathematics, or physics must complete one course in chemistry and one course selected from computer science, thermodynamics, electricity, or differential equations in addition to one year each of engineering level calculus and physics.

³Optional for College Program students majoring in engineering, chemistry, mathematics, or physics, or who have completed one year of engineering level calculus and physics. However, these courses are required for all other College Program students.

Marine Corps, Option, Scholarship or College Program (Non-Scholarship) (34 hours)

¹ NSC 101-102-103	0 hours
¹ NSC 201-202-203	0 hours
¹ NSC 301-302-303	0 hours
¹ NSC 401-402-403	0 hours
NSC 104	5 hours
NSC 204	5 hours
NSC 205-206	2 hours
NSC 311-312	6 hours
NSC 411-412	6 hours
^{2,3} HIS 201	5 hours
^{2,3} PSC 201	5 hours

DESCRIPTION OF COURSES

100. NAVAL ORIENTATION (2-0-1). Familiarizes non-NROTC students (Freshmen and Sophomores) with the Navy's role in National Defense and career opportunities in the United States Navy and Marine Corps. Includes examination of the organization of the Department of Defense, organization and missions of the Navy and Marine Corps, officer career patterns, the Uniform Code of Military Justice, Human Goals, Human Resource Management, shipboard organization, leadership, scholarship opportunities, and post-graduate educational advantages. Students incur no obligation to participate in or join the NROTC Unit. *Fall, Winter, Spring (minimum 10 students).*

101-102-103-201-202-203-301-302-303-401-402-403. (1/0-1-0) NAVAL DRILL SEMINARS. These military leadership laboratories are designed to teach basic military formations, movements, commands, courtesies and honors, and provide practice in unit leadership. Drill, personnel inspections, lectures, and discussions will be scheduled. One drill period and one seminar period per week. *Fall, Winter, Spring.*

104. NAVAL SHIP SYSTEMS I (5-0-5). Introduces students to the types, structure and purpose of naval ships. Ship compartmentalization, propulsion systems, auxiliary power systems, interior

¹Fulfills 6 hour physical education graduation requirement for students completing program.
²Optional for Scholarship students who are enrolled in engineering, chemistry, mathematics, or physics majors, or who have completed one course in chemistry, and one course from computer science, thermodynamics, electricity, and differential equations in addition to one year of engineering level calculus and physics. All scholarship students not majoring in engineering, chemistry, mathematics, or physics must complete one course in chemistry and one course selected from computer science, thermodynamics, electricity, or differential equations in addition to one year each of engineering level calculus and physics.
³Optional for College Program students majoring in engineering, chemistry, mathematics, or physics, or who have completed one year of engineering level calculus and physics. However, these courses are required for all other College Program students.

communications, ship operations, and ship stability characteristics are examined. *Spring.*

204. NAVAL SHIP SYSTEMS II (5-0-5). Covers the theory and principles of operation of naval weapons systems. The course includes coverage of types of weapons and fire control systems, capabilities and limitations, theory of target acquisition, identification and tracking, trajectory principles, and basics of naval ordnance. *Fall, Winter.*

205-206. SEAPOWER AND MARITIME AFFAIRS (1-0-1). Introduces the student to naval seapower and maritime affairs. The course is oriented towards the general concept of seapower (including the merchant marine), the role of various components of the Navy in supporting the Navy's mission, the implementation of seapower as an instrument of national policy, and a comparative study of U. S. and Soviet naval strategies. *Fall/Winter sequence.*

304-305. NAVIGATION (2-2-3). An introduction to piloting designed to convey the development of both the art and science of coastal navigation. Goals are to introduce and develop the methodology for the determination of accurate positioning, to survey the sundry instruments and navigation aids; to introduce the factors that influence the variance from the theoretical position to the actual position; to introduce the concept of relative motion and station keeping; to impart an understanding of the significance of the Rules of the Nautical Road with relation to safe navigation and international agreements. To show the relationship to the celestial sphere and nautical astronomy to the terrestrial system of coordinates, thereby contributing to position determination on the Earth. Prerequisite: NSC 304 is prerequisite to NSC 305. *Fall/Winter sequence.*

306. NAVAL OPERATIONS (3-1-3). The principles essential for a fundamental understanding and a practical working capability in both safe navigation and decision making are investigated. The course is comprised of a detailed practical analysis of relative motion, the rudimentary theory of advanced electronic navigation systems, and an application of operations analysis for decision making. *Spring.*

311-312. EVOLUTION OF WARFARE (3-0-3). Basic terms applicable to warfare are defined. Significant periods of conflict, extending from the ancient Near East to the present are studied. In exploring these eras, the technology of time, strategic alternatives, tactical innovations, naval activities, geographical factors and evolution of weaponry are examined. The techniques and effectiveness of the military leaders during the period are also studied. *Fall/Winter sequence.*

404. LEADERSHIP AND MANAGEMENT I (3-1-3). A course stressing the experiential approach to learning the principles of leadership and management. The student develops skills in the areas of communication, counseling, control, direction, management and leadership through active guided participation in Navy based case studies, experiential exercises and situational problems. Management theory, professional responsibility and the Navy Human Resources Management programs are emphasized. *Fall*.

405. LEADERSHIP AND MANAGEMENT II (2-1-2). A course which will familiarize the midshipman with and develop in him/her an appreciation of the duties and responsibilities of the junior naval officer and division officer in the areas of Navy human resources management, and the personnel management, material management, and administration of division principles. The course prepares the midshipman for the personal and professional responsibilities he will encounter immediately upon commissioning. This final capstone course in the NROTC curriculum builds upon and focuses the managerial and professional competencies developed during prior at-sea training and naval science courses. *Winter*.

411-412. AMPHIBIOUS WARFARE (3-0-3). The objective of amphibious expeditions during the 20th century are discussed. Gallipoli, the prime amphibious operation of World War I, is studied in detail. Lessons learned during WWI and the evolution of amphibious doctrine during the 1920's and 1930's are covered. The application of these concepts is evaluated by studying major landings in the Pacific and European theaters of WWII. The continuous development of equipment and doctrine is traced to the present. Current military-staff planning policy, control techniques and coordination procedures for amphibious operations are studied. *Fall/Winter sequence*.

DIVISION OF SOCIAL SCIENCES

ISAIAH McIVER, *Acting Chairman*

Benny Arkwright
Annette K. Brock
Thomas H. Byers
Jonelle B. Gordon
Lawrence Harris
Gaye H. Hewitt
Otis S. Johnson
Isaiah McIver
Charles M. Leeks
Delacy W. Sanford

Thomas E. Sears
John E. Simpson
Ella H. Sims
Steven R. Smith
Bill R. Stephenson
Merolyn Stewart
Hanes Walton, Jr.
Daniel Washington
Eugene E. Welch
Willie T. Yancey, Jr.

Good citizenship is the supreme goal of the social sciences. To be able citizens, students should have knowledge of human and cultural backgrounds and relationships. This essential knowledge comes through study of history, economics, sociology, political science, and other social sciences.

The Division of Social Sciences contributes to the realization of good citizenship by fostering three aims of higher education: (1) assisting students to attain those competencies and attitudes essential to all persons in a world of interdependent relationships; (2) preparing students for advanced study in fields such as social work, sociology, history, political science, and criminal justice; and (3) preparing students for teaching the social studies in the secondary school.

THE CHOICE OF A MAJOR

The division offers six majors. Curriculum I leads to the B.A. degree in history. Curriculum II leads to the B.S. degree with a concentration in sociology. Curriculum III leads to the B.S. degree in criminal justice. Curriculum IV leads to the B.A. degree in political science. Curriculum V leads to the B.A. degree in social work and is offered as a joint program with Armstrong State College. Curriculum VI leads to the B.S. degree in social studies education with concentrations in the social sciences, history, political science, and the behavioral sciences.

Persons interested in careers in law, diplomatic service, and research should choose curriculum I; persons interested in positions as probation officer, vocational counselor, camp counselor, employment interviewer, juvenile court worker, and official in the immigration service should choose curriculum II; persons interested in careers in general law enforcement, and/or security should choose curriculum III; persons interested in government service, federal,

state, or local should choose curriculum IV; and persons interested in careers as social workers should choose curriculum V; persons wishing to qualify for a certificate to teach in Secondary School should choose curriculum VI.

In addition to the six major areas, the division also offers minors in Black Studies, criminal justice, history, political science, sociology.

MINORS IN SOCIAL SCIENCES

The Division of Social Sciences offers the following minor sequences:

Sociology		History	
	Quarter Hours		Quarter Hours
SOC 201	5	HIS 351 or 352	5
SOC 315	5	HIS 331-332	10
SOC 340	5	HIS 353	5
SOC 350	5	Electives	10
SOC 423	5		30
SOC 454	5		
	30		

Black Studies*		Political Science	
	Quarter Hours		Quarter Hours
HIS 308	5	PSC 200	5
HIS 309	3	PSC 303	5
HIS 310	5	PSC 304	5
HIS 311	5	PSC 310	5
HIS 312	3	PSC 403	5
HIS 410	5	PSC 405	5
HIS 411	5		30
ECO 404	5		
ART 250	3	Criminal Justice	
ENG 315	3		Quarter Hours
ENG 317	3	CRJ 200	5
SOC 401	3	CRJ 300	5
PSC 462	5	CRJ 330	5
	53	Electives	15
			30

Psychology		Social Work	
	Quarter Hours		Quarter Hours
PSY 301	5	SWK 250	5
PSY 302	5	SWK 303	5
PSY 303	5	SWK 309	5
PSY 401	5	SWK 310	5
PSY 403	5	SWK 330	5
EDN 426	5	SWK 385	5
	30		30

HISTORY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107, 108, or 109	5 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours
Physical Science 203	5 hours

Area III — Social Sciences: 20 hours required

History 101-102	10 hours
Political Science 200	5 hours
Social Science 201	5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

History 202-203	10 hours
Social Science 111	5 hours
Economics 200	5 hours
A sequence from the following:	
Elementary French 141-142	
Elementary German 151-152	
Elementary Spanish 161-162	10 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 100 quarter hours

Major Requirements: 50 hours as specified

History 308-331-332-351 or 352-353-370 or 380-413 or 414-401 or 411-416	45 hours
Sociology 201	5 hours

Minor Requirements

30 hours

General Electives

20 hours

COMPREHENSIVE EXAMINATION FOR HISTORY MAJORS

Senior history majors are required to take the Graduate Record Examination (area only) as the comprehensive exit examination in their field.

SOCIOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-217	10 hours
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Ten-hour laboratory sequence from the following:

Biology 123-124 or 126-127

Chemistry 101-102

Physics 201-202	10 hours
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Area III — Social Sciences: 20 hours required

History 101-102	10 hours
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Political Science 200	5 hours
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Social Science 201	5 hours
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Area IV — Courses Appropriate to the Major: 30 hours required

History 202-203	10 hours
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Mathematics 201-210	10 hours
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Social Science 111	5 hours
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Economics 200	5 hours
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Additional Requirements:

Physical Education	6 hours
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Social Science 114	1 hour
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SENIOR COLLEGE CURRICULUM:

Requirements: 95 quarter hours

Major Requirements: 50 hours as specified

Sociology 201-315-340-350-423-454-459-460	40 hours
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Social Work 250-320	10 hours
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Minor Requirements	30 hours
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Recommended Electives:

Language Sequence 10 hours

General Electives 5 hours

**COMPREHENSIVE EXAMINATION FOR
SOCIOLOGY MAJORS**

Senior sociology majors are required to take the Graduate Record Examination as the comprehensive exit examination in their field.

CRIMINAL JUSTICE CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109 15 hours

Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107, 108, or 110 5 hours

Ten-hour laboratory sequence from the following:

Biology 123-124 or 126-127

Chemistry 101-102

Physics 201-202 10 hours

Physical Science 203 5 hours

Area III — Social Sciences: 20 hours required

History 101-102 10 hours

Political Science 200 5 hours

Social Science 201 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

History 202-203 10 hours

Sociology 201 5 hours

Social Science 111 5 hours

Criminal Justice Electives 10 hours

Additional Requirements:

Physical Education 6 hours

Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 95 quarter hours

Major Requirements: 50 hours as specified

Criminal Justice 200-201-300-301-309-330-

401-403-405-407 50 hours

Minor Requirements	30 hours
General Electives	15 hours

COMPREHENSIVE EXAMINATION FOR CRIMINAL JUSTICE MAJORS

Senior criminal justice majors are required to take an institutional comprehensive exit examination in their field plus the aptitude section of the Graduate Record Examination.

POLITICAL SCIENCE CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II — Mathematics and Natural Sciences: 20 hours required	
Mathematics 107, 108, or 109	5 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours
Physical Science 203	5 hours
Area III — Social Sciences: 20 hours required	
History 101-102	10 hours
Political Science 200	5 hours
Social Science 201	5 hours
Area IV — Courses Appropriate to the Major: 30 hours required	
Humanities 232	5 hours
History 202-203	10 hours
Mathematics 200	5 hours
Social Science 111	5 hours
Economics 200	5 hours
Additional Requirements:	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 95 quarter hours

Major Requirements: 55 hours as specified	
Mathematics 217	5 hours

Political Science 303-304-310-311-390- 391-392-403-405-499	50 hours
Minor Requirements	30 hours
General Electives	10 hours

COMPREHENSIVE EXAMINATION FOR POLITICAL SCIENCE MAJORS

Senior political science majors are required to take the Graduate Record Examination as the comprehensive exit examination in their field.

SOCIAL WORK CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Mathematics 107-217	10 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours

Area III — Social Sciences: 20 hours required

Social Science 201	5 hours
Political Science 200	5 hours
History 102-*202	10 hours

Area IV — Courses Appropriate to the Major: 30 hours required

History 203	5 hours
Sociology 201	5 hours
Social Work 250	5 hours
One of the following sequences:	
Spanish 265-266	6 hours
Humanities 233-234	9 hours
or	
Humanities 233-234	9 hours
Anthropology 201 or	
Sociology 350	5 hours

Additional Requirements:	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:
 Requirements: 95 quarter hours

Major Requirements: 60 quarter hours as specified	
Social Work 309-320-330-333-334-335-385	35 hours
Two of the following:	
Social Work 406, 410 or 430	10 hours
Social Work 451-452-475	15 hours

Required Related Courses: 30 quarter hours	
Mental Health 102 or Education 310	5 hours
Sociology 315-340	10 hours
Three of the following:	
Criminal Justice 301	
Psychology 405, 406 or Education 426	
Political Science 397	
Computer Science 200	
Sociology 460	15 hours
Electives	5 hours

**COMPREHENSIVE EXAMINATION FOR
 SOCIAL WORK MAJORS**

Senior social work majors are required to take an institutional examination as the comprehensive exit examination in their field and the aptitude section of the Graduate Records Examination.

**SOCIAL STUDIES EDUCATION CURRICULUM
 CONCENTRATION IN SOCIAL SCIENCES**

JUNIOR COLLEGE CURRICULUM:
 Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II — Mathematics and Natural Sciences: 20 hours required	
Math 107, 108, or 109	5 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124	
Chemistry 101-102	
Physics 201-202	10 hours
Physical Science 203	5 hours

Area III — Social Sciences: 20 hours required

History 101-102	10 hours
Social Science 111	5 hours
*Political Science 200	5 hours

*Area IV — Related Field: 30 hours required

Economics 200	5 hours
Sociology 201	5 hours
Social Science 201	5 hours
History 202 and 203	10 hours
Education 216	5 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 58 hours as specified

Anthropology 301	5 hours
Economics 302	5 hours
History 331-332-308 or 401	15 hours
Political Science 304-404	10 hours
Social Science 300-400-413-420	18 hours
Sociology 315 or 350	5 hours

Professional Education Sequence: 40 hours as specified

Education 334-423-424	40 hours
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**SOCIAL STUDIES EDUCATION CURRICULUM
CONCENTRATION IN HISTORY**

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Math 107, 108, or 109	5 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124	
Chemistry 101-102	
Physics 201-202	10 hours
Physical Science 203	5 hours

Area III — Social Sciences: 20 hours required	
History 101-102	10 hours
Social Science 111	5 hours
Political Science 200	5 hours

Area IV — Related Field: 30 hours required	
Economics 200	5 hours
Sociology 201	5 hours
Social Science 201	5 hours
History 202-203	10 hours
Education 216	5 hours

Additional Requirements:	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:
 Requirements: 98 quarter hours

Major Requirements: 58 hours as specified	
Anthropology 301	5 hours
History 308-331-332-341-351, 352 or 353-370 or 380-401 or 411-416	40 hours
Social Science 300-413-420	13 hours

Professional Education Sequence: 40 hours as specified	
Education 334-423-424	

SOCIAL STUDIES EDUCATION CURRICULUM
 CONCENTRATION IN POLITICAL SCIENCE

JUNIOR COLLEGE CURRICULUM:
 Core Curriculum Requirements: 90 hours

Area I — Humanities: 20 hours required	
English 107-108 and 109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required	
Math 107, 108, or 109-217	10 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	
Physical Science 203-204	10 hours

Area III — Social Sciences: 20 hours required

History 101-102	10 hours
Social Science 111	5 hours
*Political Science 200	5 hours

Area IV — Related Field: 30 hours required

Economics 200	5 hours
Sociology 201	5 hours
Social Science 201	5 hours
History 202 and 203	10 hours
Education 216	5 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 58 hours as specified

Anthropology 301	5 hours
History 331	5 hours
Political Science 304-310-311-403-498	25 hours
Social Science 300-413-420	13 hours

Professional Education Sequence: 40 hours as specified

Education 334-423-424	40 hours
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**SOCIAL STUDIES EDUCATION CURRICULUM
CONCENTRATION IN THE BEHAVIORIAL SCIENCES**

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 hours

Area I — Humanities: 20 hours required

English 107-108 and 109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Math 107, 108, or 109-217	10 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	
Physical Science 203-204	10 hours

Area III — Social Sciences: 20 hours required	
History 101-102	10 hours
Social Science 111	5 hours
Political Science 200	5 hours

Area IV — Related Field: 30 hours required	
Economics 200	5 hours
Sociology 201	5 hours
Social Science 201	5 hours
History 202 and 203	10 hours
Education 216	5 hours

Additional Requirements:	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:
 Requirements: 98 quarter hours

SOCIOLOGY CONCENTRATION: 58 hours as specified	
Anthropology 301-302	10 hours
Sociology 315-340-423-454-455-460	30 hours
Psychology 302-401	10 hours
Social Science 300-413	8 hours

or

PSYCHOLOGY CONCENTRATION: 58 hours as specified	
Anthropology 301-302	10 hours
Psychology 301 or 404-302-303-403	20 hours
Education 310	5 hours
Education 426	5 hours
or	
Education 426 or	
Criminal Justice 306	5 hours
Social Science 300-413	10 hours
Sociology 340-455	8 hours

Professional Education Sequence: 40 hours as specified	
Education 334-423-424.	

**COMPREHENSIVE EXAMINATION FOR
 SOCIAL STUDIES
 EDUCATION MAJORS**

Senior social studies education majors are required to take the National Teacher Examination as the comprehensive exit examination in their field.

DESCRIPTION OF COURSES

SOCIAL SCIENCES

108. HISTORY AND THEORY OF DEBATE (3-0-3). Designed to familiarize the student with the evolution, theories, and value of persuasive argumentation as an art. *Elective*. Prerequisite: Consent of instructor.

111. WORLD AND HUMAN GEOGRAPHY (5-0-5). A study of man's relationship to his natural, physical and cultural environment; world patterns of population, climate, and industrial development; problems of agriculture, commerce, trade, transportation and communication; conservation of natural resources. *Fall, Winter, Spring*.

197, 198, 199, 297, 298, 299. INDIVIDUAL APPRAISAL IN THE SOCIAL SCIENCES (1-0-1). Designed to help students improve their test-taking skills and their performance on standardized tests. Open to all students, these courses are suggested electives for all majors in the division.

200. INTRODUCTION TO PHILOSOPHY (5-0-5). A survey of the basic problems of traditional philosophy and some of the solutions suggested by outstanding philosophers. Areas covered include metaphysics, epistemology, ethics, metaethics, and logic.

201. PSYCHOLOGICAL BASIS FOR HUMAN BEHAVIOR (5-0-5). An introduction to the science which studies the behavior and experiences of living organisms and specifically, human behavior and experiences. *Fall, Winter, Spring*.

300. INTRODUCTION TO THE SOCIAL SCIENCES (5-0-5). This course is designed to provide a survey of each discipline in the Social Sciences so that students interested in the field will have a clear understanding of the focus and parameters of each discipline before deciding upon a major course of study. The areas covered are history, sociology/social work, economics, political science, criminal justice, psychology, international studies, anthropology, and geography.

343. STUDIES IN AFRICAN CIVILIZATION (0-0-5). This course is a field trip to one or more African nations or to a nation or nations of African ancestry or influence. *Summer*.

400. RESEARCH IN THE SOCIAL SCIENCES (5-0-5). A survey designed to acquaint students with various types of research utilized in the social sciences.

413. TEACHING OF THE SOCIAL STUDIES IN THE SECONDARY SCHOOLS (3-0-3). The historical evolution of the social

studies curriculum. The role and scope of teaching strategies related to emphasis on broad approach to integrated social studies by contrast to emphasis on separate and discrete disciplines of subject matter. Evaluation of trends in ascribing and defining objectives of instruction. Consideration of new media, materials, and methods of new curriculum projects.

420. DEMOCRACY VERSUS COMMUNISM (5-0-5). A background of Russian history to the Revolution of 1917; political, economic, social, and geographic factors which have played a part in the historical development of communism in the USSR and democracy in the United States. *Spring*.

HISTORY (HIS)

101. HISTORY OF WORLD CIVILIZATIONS (5-0-5). A survey of the major civilizations of the world from the earliest times to about 1500. *All quarters*.

102. HISTORY OF WORLD CIVILIZATIONS (5-0-5). A survey of the major civilizations of the world from about 1500 to the present; continuation of HIS 101. *All quarters*.

200. THE ESSENTIAL DEVELOPMENTS IN THE HISTORY OF THE UNITED STATES AND IN THE HISTORY OF GEORGIA (5-0-5). Designed to acquaint the student with the institutions and traditions of the United States, from the colonial period to the present, and with corollary developments in the history of Georgia. This course satisfies that phase of the Georgia Code which requires instruction in the history of the United States and Georgia. The Constitution phase of the law may be met through satisfactory completion of PSC 200. *Fall, Winter, Spring*.

201. HISTORY OF AMERICAN MILITARY AFFAIRS (5-0-5). This course is an introductory survey of military affairs in the United States from the Revolution to the present. Its major purpose is to acquaint the student with the American military experience, to emphasize the problems involved in waging war, and to examine the effects of waging war on the society that wages it.

202. HISTORY OF THE UNITED STATES THROUGH THE CIVIL WAR (5-0-5). An introductory survey of the formative period of the history of the United States. *Fall, Winter, Spring*.

203. HISTORY OF THE UNITED STATES SINCE THE CIVIL WAR (5-0-5). A survey of American history from the Civil War to the present. *Fall, Winter, Spring*.

308. AFRO-AMERICAN HISTORY (5-0-5). A survey of the history of Afro-Americans beginning with the African background and continuing to the present.

309. THE AFRICAN AND LATIN AMERICAN BACKGROUND (3-0-3). This course seeks to develop an awareness and appreciation of the Afro-American's African and Latin American background and experiences. Beginning with the African background, the course examines the Afro-American past and seeks to integrate that past with his experiences in Latin America.

310. THE AFRO-AMERICAN FROM 1619 to 1860 (5-0-5). A continuation of HIS 309, this course begins with the introduction of Africans into the American colonies; analyzes the evolution and maintenance of the slave system, evaluates Afro-American accommodation, resistance, rebellion, quest for freedom; analyzes the abolition movement, black and white attitudes, institutions and values up to the election of Lincoln.

311. THE AFRO-AMERICAN FROM 1861 to 1900 (5-0-5). A continuation of HIS 310, this course emphasizes the impact of the Civil War on Afro-Americans, their life as soldiers, their treatment by Confederate and Union forces, Lincoln's colonization and emancipation plans, Reconstruction, white reaction, and Populist alliances.

312. THE AFRO-AMERICAN IN THE 20th CENTURY (3-0-3). Major emphasis is placed on the modern Afro-American experiences such as Afro-American participation in the World Wars, the Depression, and the struggles for civil rights, identity, and self-determination.

320. HISTORY OF THE WORLD SINCE 1960 (3-0-3). A series of lectures by members of the division's faculty on the major events in the world since 1960. Designed to acquaint the student with the major trends and movements in the contemporary world.

331. HISTORY OF EARLY MODERN EUROPE (3-0-5). History of Europe from about 1500 until the French Revolution, covering the Reformation, Scientific Revolution, absolutism, family and demographic developments, and the Enlightenment. Lectures and assigned readings. *Winter*.

332. HISTORY OF MODERN EUROPE (5-0-5). A detailed study of the political, social, economic, and intellectual developments in Europe since 1789. Emphasis is on western Europe. Lectures, assigned readings, research papers. *Spring*.

341-342. STUDIES IN AFRICAN CIVILIZATION (5-0-5). Designed to develop greater appreciation of the African backgrounds of Black Americans, these courses treat the geography, history, politics, economics, religion, and arts of certain African nations.

351. AMERICAN REVOLUTION AND NEW NATION (5-0-5). An examination and analysis of the formative forces in American

life during the period from the 1750's through the launching of a new system of national government under the Constitution of 1787. *Fall.*

352. AMERICAN CIVIL WAR AND RECONSTRUCTION (5-0-5). An intensive examination and analysis of the forces at work in American life during the crucial period from 1840 through 1877. *Winter.*

353. RECENT AMERICAN HISTORY (5-0-5). An intensive study of the political, social, and economic history of the United States from the First World War to the present. *Spring.*

370. THE HISTORY OF LATIN AMERICA (5-0-5). An appraisal from both an historical viewpoint of the political, intellectual, social and economic development of Latin America and its relations with the United States. Prerequisites: HIS 202, 203. *Winter.*

380. HISTORY OF THE FAR EAST (5-0-5). An introduction to the civilization and culture of the Far East with special attention to the roles of China, Japan, and India in world affairs during the last century. Prerequisites: HIS 202-203-331-332. *Winter.*

395-396-397. INTERNSHIP (Varies). An individually designed course-project involving off campus study and research in a government or private agency, during which the student will be under the joint supervision of the sponsoring agency and his faculty advisor. To be arranged by faculty advisor and department chairman.

401. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES (5-0-5). An examination of the principal social and intellectual trends since the Jacksonian era with the purpose of increasing the student's awareness of the social and intellectual forces at work in contemporary America and their historical precedents. *Winter.*

402. INDIVIDUAL STUDY AND INDEPENDENT RESEARCH. This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. 3 to 5 credit hours. Students must register for course.

408. HISTORY OF RUSSIA SINCE 1815. An examination of the major economic and political developments in addition to the various reform movements of Tsarist Russia. Emphasis is placed on the October Revolution and its aftermath. Prerequisites: HIS 331-332. *Fall.*

410. HISTORY OF AFRICAN THOUGHT (5-0-5). An examination of traditional and contemporaneous African educational political, social, economic, and cultural thought. Prerequisite: HIS 308.

411. HISTORY OF AFRO-AMERICAN THOUGHT (5-0-5). This course is designed to deal primarily with the ideas, institutional practices, values, and ideologies embraced by Afro-Americans historically and contemporaneously. It incorporates the philosophy and tactics of accommodation, integration, and separation. Prerequisites: HIS 308-410.

413. HISTORY OF ENGLAND TO 1688 (5-0-5). A study of the political, social, economic, and intellectual movements in England. Emphasis on constitutional developments in the medieval period and during the early modern era. *Fall*.

414. HISTORY OF ENGLAND SINCE 1688 (5-0-5). A study of the political, social, economic, and intellectual movements in England since the Glorious Revolution. Emphasis is given to those factors which enabled Britain to rise to a position as a world power and the decline of British influence in the twentieth century. *Fall*.

416. INTRODUCTION TO HISTORICAL SEMINAR (5-0-5). Analysis of the sources, and critical methods in evaluating, organizing and using such materials. Attention to selected outstanding historians and distinctive types of historical writing. Prerequisites: HIS 202-203-331-332-353. *Spring*.

545. EXPANSION OF EUROPE: SLAVERY AND THE TRANSATLANTIC SLAVE TRADE, 1500-1800 (5-0-5). Open to graduate students and selected undergraduates. An examination of the development, maturation, and disintegration of slavery and the slave systems in the Americas between 1500 and 1800. Emphasis on the antecedent expansion of European social forms overseas, especially in the new world.

SOCIOLOGY (SOC)

201. INTRODUCTION TO SOCIOLOGY (5-0-5). An analysis of the development of human group life; structure of the social environment and its influence upon the individual's behavior. *Fall*.

309. INTRODUCTION TO GROUP DYNAMICS (5-0-5). Study of social group formation, the interdependent psychological relationships of group members, and trends in reciprocity between attitudes, values, and norms towards the attainment of group consciousness and cohesiveness; emphasis is focused on intragroup consciousness and intergroup conflict involving social action and counter action. Prerequisite: SOC 201. *Winter*.

315. THE FAMILY (5-0-5). The role of the family in the development of the individual. Current psychological, economic, social, educational, and ethical problems of marriage and family life. Prerequisite: SOC 201. *Spring*.

340. TECHNIQUES OF SOCIOLOGICAL RESEARCH (5-0-5). Techniques used in social research: case study, historical, logical, ecological, their application to social data. Prerequisite: SOC 201. *Spring*.

350. MODERN SOCIAL PROBLEMS (5-0-5). Analysis of the causes of poverty, disease, crime, family disintegration, and personality maladjustments; preventive measures for human problems. Prerequisite: SOC 201. *Fall*.

365. RACE, POVERTY AND THE LAW (5-0-5). This course will explore the scope and nature of the law applicable to the poor. Moreover, it will emphasize the relationship of poverty and race to crime and the special needs that legal services can render to make more efficacious justice in America. Prerequisite: SOC 350. *Fall*.

395-396-397. INTERNSHIP (Varies). The student will pursue an individually designed course-project involving off-campus study and research in a government or private agency, and for which he will receive a stipend. Projects are normally designed to require the full eleven week quarter for completion, during which time the student will be under joint supervision by the sponsoring agency and his faculty advisor. All credit arrangements must be made through the student's major advisor.

403. INDIVIDUAL STUDY AND INDEPENDENT RESEARCH. This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. 3 to 5 credit hours. Students must register for course.

423. CRIMINOLOGY I. The sociological approach to crime. An investigation of the causes, nature, and extent of crime and the policies used in dealing with crime and the criminal. Prerequisite: SOC 350. *Winter*.

454. HISTORY OF SOCIAL THOUGHT (5-0-5). A consideration of the development of sociological theories from classical to modern times, with special emphasis on recent and contemporary theories in Europe and America. Prerequisite: SOC 350. *Winter*.

455. CONTEMPORARY SOCIAL THOUGHT (5-0-5). Examines the various schools, perspectives, and theories involved in modern

sociology. The study will include the historical antecedents of contemporary schools of thought in philosophy and sociology. Strengths and weaknesses of all significant theories will be analyzed.

459. CULTURAL ANTHROPOLOGY (5-0-5). Anthropological theories and their application to principles and techniques used in the comparative study of culture, including a survey of human development, and contemporary aboriginal culture. Prerequisite: SOC 201. *Spring*.

460. SOCIOLOGICAL PERSPECTIVES ON BLACK EXPERIENCE IN THE UNITED STATES (5-0-5). Study of historic and current trends in selected sociological frames of reference of experiences encountered by black people in the United States, emphasizing social movement and social change, urban and institutional processes, social values and personality formation. *Winter*.

461. THE SOCIOLOGY OF BLACK CULTURE (5-0-5). Study of the "ways" and "whys" of black behavior and the contributions of black people to the "progress" of mankind, emphasizing historic and current cultural developments in Africa, South America, and the United States. *Winter*.

462. THE BLACK MAN IN THE THIRD WORLD (5-0-5). Study of social, political, and economic problems and processes in which black people are involved in "the third world" with attention focused on Africa, South America, and the United States. *Spring*.

CRIMINAL JUSTICE (CRJ)

200. INTRODUCTION TO CRIMINAL JUSTICE (5-0-5). This course deals with the philosophical background to criminal justice, a brief history of criminal justice, the constitutional limitations of criminal justice, the agencies involved in criminal justice, the processes of criminal justice, and evaluating criminal justice today. *Fall*.

201. LAW ENFORCEMENT I (5-0-5). This course involves the detailed study of basic police operations, the policeman's role in law enforcement. Special topics include the police career, criminology for policemen, preserving order and keeping the peace, arrest procedures, search and seizure, traffic control, mob control, picketing and riots. *Spring*.

300. JUDICIAL PROCESS (5-0-5). This course examines the court's and law enforcement's role in the criminal justice process. Special topics discussed include courts as political subsystems in comparative perspective, judicial decision making and the development of public policy through judicial process. Prerequisite: CRJ 201. *Fall*.

301. JUVENILE DELINQUENCY (5-0-5). This course studies both the legal and social character of juvenile delinquency. Special topics include the policeman's role in the delinquency problem, juvenile deviants and social definitions and behavior, the family and delinquency, middleclass delinquency, interacting factors in delinquency, gangs, crime, courts, and the Gault decision.

302. CRIMINALISTICS (5-0-5). An examination of the scientific aspect of criminal investigation and the crime scene, investigation, police photography, forensic photography, casts and molds, glass fractures, blood and other body fluids, the use of the microscope in crime detection, document examination, fire arms comparison, homicide identification and role of the toxicologist in crime detection.

303. CONSTITUTIONAL LAW FOR LAW ENFORCEMENT OFFICERS (5-0-5). This course will examine in detail those articles and constitutional amendments which deal exclusively and specifically with police powers and implied law enforcement operational activities.

304. CRIMINAL PSYCHOLOGY (5-0-5). An examination of the law enforcement officers' roles in recognizing and handling the criminal psychopath. Special topics include techniques of psychological examinations, abnormal psychology, neurosis, psychosis, sociopathic personality disorders, alcoholism, drug addiction, psychology behind bars, and the role of correctional psychologists.

305. LEADERSHIP AND COMMAND SUPERVISION (5-0-5). The role of the supervisor and leader in law enforcement activities and elements of successful command authority.

309. RESEARCH METHODS IN CRIMINAL JUSTICE (5-0-5). A methodological approach to the unique and specific applications of research in the various criminal justice systems.

320. DRUG CONTROL AND DANGEROUS DRUG ABUSE (5-0-5). An in-depth study of federal, state, and local legal and agency law enforcement problems involved in narcotics and dangerous drug control. Students will examine the present methods and techniques of legislative, investigative, and judicial techniques of drug control. Emphasis will be placed upon determining more effective methods of social control and treatment regarding drug abuse within the community.

321. TRAFFIC CONTROL AND SAFETY (5-0-5). Designed to prepare students interested in pursuing careers in police traffic administration and control. The course will examine current laws affecting traffic and automobile accidents where possible criminal charges would be involved. Vehicle homicide, legal automobile stops, highway search and seizures, road blocks, and vehicle inspections and licensing will be examined through case and situation study.

330. BASIC CRIMINAL PROCEDURE (5-0-5). An examination of the role of the courts and law enforcement agency in the criminal justice process. Special topics include arrest, search and seizure, wire tapping, electronic eavesdropping, the use of secret agents, entrapment, police interrogations and confessions, the exclusionary rules, police lineups and other pretrial identification procedures.

331. COURT PROCEDURES (5-0-5). An analysis of all aspects of the formal judicial procedures following an arrest, and taking the suspect from his arraignment to final case disposition in a felony trial. Students will examine current trial techniques, legal defenses, court-room procedures and will study trial records as they concern possible appellant or other review action. Prerequisite: CRJ 330.

332. PRINCIPLES OF COMMUNITY RELATIONS IN LAW ENFORCEMENT (5-0-5). The role of law enforcement agencies in the community with special references to ethnic, social, and financial problems as well as solutions to basic conflicts in minority police relationships.

395-396-397. INTERNSHIP (Varies). Work and study experience in one of the specialized career fields of criminal justice. Prerequisites: Junior or Senior standing and consent of instructor.

400. INDIVIDUAL STUDY AND INDEPENDENT RESEARCH (Varies). This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors.

401. CRIMINAL LAW I (5-0-5). Studies the nature, sources and types of criminal law. The classification and analysis of crimes in general and the examination of specific offenses. Special topics include: homicide, murder, rape, larceny, robbery, and arson.

403. CORRECTIONS, PROBATION, AND PAROLE (5-0-5). This course studies and overviews the principles, institutions and practices of corrections, probation and parole systems. Special topics include: analysis and evaluation of historical and contemporary correctional systems, the development, organization and results of different systems.

404. LAW ENFORCEMENT II (5-0-5). A study of the philosophical, cultural, and historical backgrounds of the police role in the criminal justice system. This course will deal with the development of concepts such as the changing role of the police, use of discretion, policy formulation, and decision making.

405. SEMINAR IN CRIMINAL JUSTICE (5-0-5). This course analyzes the legal policy and operational procedures to be followed

in investigating and resolving various specialized situations of crime and criminal behavior. Modern police practices, community-police relationships, law enforcement facilities, training, recruiting and utilization of men and equipment are discussed. Special topics include the use of police dogs and helicopters. Current and future problems faced in all phases of the law enforcement field form the basis for much of the assigned seminar discussion topics.

406. LAW OF CORRECTIONS (5-0-5). A survey of the legal aspects of incarceration, institutionalization, rehabilitation, and post release programs. Special topics include inmate rights, available legal assistance, access to the courts, sentence review, and special legal problems relating to post release. Prerequisites: CRJ 200-403.

407. EVIDENCE IN LAW ENFORCEMENT (5-0-5). This course deals with the rules of evidence and their value in police and law enforcement operations. Special topics include classification of evidence, recognition of evidence, utilization of evidence, investigative leads and courtroom presentations. the hearsay rule and its exceptions, best evidence rule, impeachment and cross examination, governmental privileges and scientific and demonstrative evidence.

408. LAW AND SOCIETY (5-0-5). This course will develop the historical and philosophical development of law and its relationship to society. Such issues as personal privacy, civil disobedience and regulation of moral behavior will be discussed. Prerequisite: CRJ 200.

410. CIVIL RIGHTS (5-0-5). Examination of civil rights in the light of possible violation of both criminal and civil statutes. Federal and state cases in the civil rights field will be studied. Strong emphasis will be placed on a clear understanding of current judicial interpretation in this field. *Elective*.

411. CORRECTIONAL COUNSELING (5-0-5). An analysis of the key ingredients of correctional casework: theories of the causes of criminal and delinquent behavior; the nature of the counselor's role and the purpose of inmate counseling. Students will examine the major contemporary approaches that a practicing career counselor can utilize in applying behavior theories to incarcerated individuals. Prerequisites: CRJ 200, 403. Offered on sufficient interest and demand.

412. COMMUNITY BASED CORRECTION (5-0-5). An analysis of the history, philosophy, theory, and functions of halfway houses, work release centers and other forms of community-based treatment for the offender. Explores current innovations such as using volunteers and offenders as correctional manpower resources. Prerequisites: CRJ 200, 403. Offered on sufficient interest and demand.

413. CRIMINAL INVESTIGATION (5-0-5). A study of the role of the criminal investigator and investigative methodology. Special topics include investigative techniques, crime scene searches, use of investigative resources and informants. Prerequisite: CRJ 200.

POLITICAL SCIENCE (PSC)

200. GOVERNMENT (5-0-5). Provides a general understanding of the concepts, functions, and operations of government (international, national, state and local), and basis for development of desirable attitudes, critical thinking, and intelligent participation in political affairs. *Fall, Winter, Spring.*

201. NATIONAL SECURITY POLICY (5-0-5). Deals with the formulation and implementation of American security policy. American military history is analyzed briefly to determine the factors bearing on the development of the defense structure of the United States. The method formulation of national security policy is studied, as is the role of each governmental component concerned with security affairs. The elements of national power are reviewed.

303. INTERNATIONAL POLITICS (5-0-5). It is a survey study of the basic factors which motivate international relations, including power politics, ideology, and nationalism. It is concerned with: the causes of war, the international organization, world government, and diplomacy. Special emphasis is placed on case studies, independent study, reading, research, and writing. Prerequisite: PSC 200 or consent of instructor.

304. COMPARATIVE GOVERNMENT AND POLITICS (5-0-5). This course stresses the institutional, political, and cultural differences and similarities between various countries and blocs of countries. Special emphasis is placed on various case studies in Western Europe, the Soviet Bloc, and the developing areas of Latin America, Africa, and Asia. Independent study, readings, research, and writing are stressed. Prerequisite: PSC 303 or special permission *Fall.*

310. STATE GOVERNMENT (5-0-5). A survey of the nature, organization, and problems of the state and local government and administration in the United States. *Fall.*

311. AMERICAN CONSTITUTIONAL LAW (5-0-5). The evolution of American Courts; the development and application of American Constitutional Law, as interpreted in the leading decisions of the Supreme Court. Included are citizenship, the war powers, taxation, the commerce power, the impairment of contracts, due process of law, the civil liberties of individuals and groups, and the equal protection of the law. Recent trends in constitutional doctrine. Prerequisite: PSC 200. *Fall.*

390. BLACK POLITICS (5-0-5). This course is designed primarily to deal with the Black man in the American political arena. It deals with Blacks as actors in the political system rather than being acted upon. Such topics as Black Political Parties, Black Pressure Groups, the Black Electorate, Black Public Officials, and Public Policy will be discussed. *Spring*.

391. AFRICAN GOVERNMENT AND POLITICS (5-0-5). The purpose of this course is to discuss the government of Black African states — Africa south of the Sahara. It will deal with the effects of colonialism, neocolonialism, and nationalism upon contemporary political institutions in each African state.

392. URBAN GOVERNMENT (5-0-5). Metropolitanism, the control of central city, the rise of Black mayors, the problems of air, water, and population will all be discussed in connection with the continual urbanization of a society. *Spring*.

395-396-397. INTERNSHIP (Varies). The student will pursue an individually designed course-project involving off-campus study and research in a government or private agency. Projects are normally designed to require the full quarter for completion, during which time the student will be under joint supervision by the sponsoring agency and his faculty advisor. Credit must be arranged by faculty advisor and department chairman.

401. INDIVIDUAL STUDY AND INDEPENDENT RESEARCH. This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. 3-5 credit hours. Students must register for course.

403. POLITICAL THEORY (5-0-5). This course describes and analyzes significant theories and ideas underlying past and contemporary political systems. Leading topics of study and discussion are the influence upon political theory of Greek thought, the Roman doctrine of natural law, the church and state in the middle Ages, Machiavelli and the rise of the modern state. Prerequisites: HIS 101, 102 or special permission. *Fall*.

404. POLITICAL THEORY (5-0-5). A continuation of PSC 403. It emphasizes also the nature of liberalism, individualism, conservatism, state welfarism, fascism, national socialism, and communism. Abstract and philosophical thinking on the part of the student is stressed. Prerequisite: PSC 403. *Winter*.

405. THE AMERICAN POLITICAL PROCESS (5-0-5). This is an inquiry into the functioning of the American political system, and

the theories behind it. Stress is placed on federalism, political parties, and pressure groups and their relationship to the federal structure, and the causes of political behavior in American life. Independent study, readings, research, and writing are stressed. Prerequisite: PSC 200 or special permission. *Winter*.

409. AMERICAN POLITICAL THOUGHT (5-0-5). The purpose of this course is to discuss the nature, scope, and significance of American political ideas and thinkers. It will begin with the ideas of the revolutionary leaders and move to the political thoughts of the radical right, new left, and the Black Revolution.

410. PUBLIC ADMINISTRATION (5-0-5). Students in this course will be acquainted with the nature, principles and scope of public administration. The political and constitutionality of political and managerial roles of the chief executives and their staff will also be brought to light.

418. GOVERNMENT AND POLITICS OF SOUTHEAST ASIA (5-0-5). This course will focus upon the governments of Southeast Asia and analyze the impact that colonialism, nationalism and communism have had upon them. The present foreign policy of each country will be discussed as well as its relationship to the SEATO organization.

419. JURISPRUDENCE (5-0-5). This course will focus primarily upon the philosophy of the law and it will cover each school of jurisprudence (from historical to sociological jurisprudence) and relate these to a large context of man and his civil liberties.

450. POLITICAL PARTIES (5-0-5). The focus of this course is upon the evolution, nature, and role of American political parties. The course will deal with each of the major party systems as well as with theories about party organizations. *Fall*.

498. AMERICAN FOREIGN POLICY (5-0-5). This course will focus upon the origin, nature, and consequences of American foreign policies. Moreover, the role and impact of the Presidency, public opinion, Congress, and outcome will also be included. *Fall*.

499. RESEARCH IN POLITICAL SCIENCE (5-0-5). This course is to acquaint the student with the nature of inquiry as well as the dimensions and approaches to Political Science. The historical, analytical, comparative, descriptive, legalistic, behavioral and mathematical application to man's political behavior will be discussed. *Fall*.

250. INTRODUCTION TO SOCIAL WORK (4-2-5). A study of the social welfare system and the social work profession as a discipline within it. A look at the social service delivery system as a response

to human need. The course requires 20 clock hours of volunteer work in a social service setting with suitable supervision. *Fall and Spring* (SSC), *Winter and Summer* (ASC)

309. GROUP PROCESS (5-0-5). A course designed primarily to develop basic skills in working with groups and to increase one's level of self-awareness. The body of knowledge is measured via written tests and term papers. Skills, values, and one's affective domain are measured by peer-ratings, group exercises, and professor's judgment. For behavioral science and professional degree majors only. Prerequisites: SWK 250 and completion of section A (General Requirements). *Fall, Winter, Spring* (ASC or Field Center).

320. ETHNIC MINORITIES. (5-0-5). The course examines the problems faced by minorities in America, especially where skin color and language posed social and economic barriers. It looks at dominant public attitudes and patterns of response by minorities such as Black Americans, Chicanos, Puerto Ricans, Native Americans and other sizable ethnic groups.

330. SWK: Nurs. HUMAN GROWTH AND SOCIAL ENVIRONMENT (5-0-5) A course designed to examine the reciprocal relationship between man and his environment and the effects of this relationship on man's physical, emotional, and social development. Emphasis will be placed on facilitating man's adaption to internal and external stress throughout the life cycle. Prerequisites: SOC 201 and PSY 101 or SOS 201. A prerequisite for SWK 333. *Fall, Spring* (ASC)

333. INTERVENTIVE METHODS I (4-2-5). A course designed to develop and sharpen interpersonal skills. The student: learns to use conversation, observation and analytical helping skills in a variety of roles played by the generalist social worker. The course presents the student with a wide variety of interview situations in which he must demonstrate a high degree of competence.

334. INTERVENTIVE METHODS II (4-2-5). This course teaches an approach to human problem solving utilizing a systems approach with emphasis on patterns of coping, family relationship, behavioral study, diagnosis, treatment or plan of action! Competency in crisis intervention and selection of proper treatment modality must be demonstrated. Prerequisite 334. Offered twice a year at SSC or the Field Center.

335. INTERVENTIVE METHODS III (4-2-5). A sequel to SWK 334 with the main thrust on neighborhood and community need. It is predicated on the concept that where ever there is widespread human need or suffering there is a breakdown of some aspect of the social system. Using multiple roles of the generalist, particularly

data gatherer, analyst, consultant, mobilizer, and advocate, the students are taught to analyze system dysfunction and its impact on people. Prerequisite: SWK 334. Offered twice a year at SSC or the Field Center.

385. SOCIAL POLICY AND ADMINISTRATION (5-0-5). This course is designed to help students to understand the processes of social change including legislation to the delivery of social services. It examines the appropriate bureaucratic structure, finding and policy making and the need for public accountability. Students will learn systems of priority setting and methods of efficiency which can be both effective and humane. Prerequisite: SWK 333-335. *Fall, Summer, and on demand (SSC).*

406. CHILD WELFARE (4-2-5). This course reviews child development and social behavior with an emphasis on the practical application of understanding the psychosocial, mental, and physical development of children. The environmental and family situation is studied and related to the child's development or lack thereof. Actual work with children, identified as needing tutorial help, behavioral correction, emotional support or environmental change, is expected of each student participating. The emphasis is on the disadvantaged child who is most subject to these problems.

410. AGING AND SERVICES TO THE ELDERLY (4-2-5). A course designed for students going into public or private agencies serving the elderly. Emphasis will be placed on the social, economic, and health needs of the elderly with attention to delivery systems that work. New knowledge, research, and actual projects will be studied where practicable. Prerequisites: SWK 330, 333 or permission of social work program coordinator. *Winter, Summer (ASC).*

430. ALCOHOL AND DRUG STUDIES (5-0-5). A course focusing on the various forms of alcohol and drug use with emphasis on the stages of harmful dependence and addiction. There will be an examination of the legal and social implications of addiction, as well as approaches to treatment and rehabilitation. Prerequisites: SWK 333-335 for SWK majors. Others by permission of instructor. *Fall, Spring (ASC).*

451. FIELD EXPERIENCE I-0-20-5 Each student will work in a social service setting a minimum of 20 clock hours per week. It is designed for optimal learning experience with clients, agencies and the community. It is to increase student knowledge and ability under professional supervision. There will be a weekly meeting with the Field Coordinator.

452. FIELD EXPERIENCE II. This is an advanced field experience wherein greater proficiency and additional skills are expected from the student. The student must demonstrate competency in a

variety of roles played by the generalist social worker. Students will take S.W. 475 concurrently. Prerequisite: SWK 451. *Spring*.

475. SENIOR SEMINAR (5-0-5). This is a required course taken concurrently with SWK 452. It is designed to integrate classroom learning, basic theory, professional journal reports and life experience with the student's experience in the field. Prerequisite: SWK 451. *Spring*.

ANTHROPOLOGY (ANT)

301. CULTURAL ANTHROPOLOGY (5-0-5). Anthropological theories and their application to principles and techniques used in the comparative study of culture, including a survey of human development, and contemporary aboriginal culture.

302. PALEOANTHROPOLOGY (5-0-5). A survey of the data that illuminates the evolution of man. The major prehuman-and human species, their ecology and cultures, will be discussed.

PSYCHOLOGY (PSY)

302. ADVANCED GENERAL PSYCHOLOGY (5-0-5). Consideration of the principles significant in understanding and explaining human experiences and behavior with special emphasis placed on motivation and emotion, personality and individuality, social psychology, psychotherapy and other treatment methods, and an introduction to scientific methodology and its application to behavior analysis. Prerequisite: SOS 201. *Fall, Summer*.

302. HISTORY OF PSYCHOLOGY (5-0-5). A description of the work of those psychologists who have made the most significant contributions to the development of the science, with emphasis on the various systems of psychology, research, and experimentation. Prerequisite: SOS 201. *Winter*.

303. SOCIAL PSYCHOLOGY (5-0-5). A study of the individual and his social context, beginning with the study of the social behavior of animals and including human functioning in small groups, in societies, and in cross-cultural perspectives. Attitudes, motives, and social perception will be emphasized. Prerequisites: SOS 201, PSY 301. *Winter, Spring*.

401. THEORIES OF PERSONALITY (5-0-5). An exploration of the theoretical basis of personality with emphasis on structure, dynamics, personality development, normal and deviant behavior, attitudes, beliefs, and opinions, Prerequisites: SOS 201, PSY 301, PSY 302, *Winter, Spring*.

402. MENTAL HEALTH (5-0-5). Analysis of the concept of the healthy personality and mental functioning as responding constructively to stress rather than merely adapting or adjusting to stress. *Fall, Summer.*

403. PSYCHOLOGY OF BLACK EXPERIENCE (5-0-5). An overview of contemporary topics in the area of Black psychology, including self-concept, achievement and motivation, Black family, and others. Prerequisites: PSY 301, PSY 303. *Spring.*

404. EXPERIMENTAL PSYCHOLOGY (5-0-5). Study and analysis of the most basic classical and modern experiments in psychology and the principles of experimental psychology illustrated therein; laboratory experience in conducting and reporting basic types of psychological experiments.

DEPARTMENT OF SPECIAL STUDIES

NORMAN BENEDICT ELMORE, *Head**

GEORGE THOMAS, SR., *Acting Head*

Charlie Bryan
Ronald Clark
Russell Ellington
Joan Green
Abbie Jordan
Joyce McLemore
Sandra McPhaul

Emogene Middleton
Gloria Mosley
Charles Murphy
Rosalie Pazant
Frank Ross
Sharon Sapp
Carolyn Sartor

Mary Ann Williams

The basic aim of the Special Studies Program is to provide basic, developmental, and corrective instruction for entering students who demonstrate marked deficiencies in English, reading, and mathematics. The Special Studies Program (formerly the Developmental Education Program and/or Demonstration Development) was initiated at Savannah State College by the Regents of the University System of Georgia in 1969. The administration gave the Department full academic status at the beginning of the 1973-74 fiscal year.

Entering freshmen who earned a combined score of less than 750 on the Scholastic Aptitude Test (SAT) must sit for the Basic Skills Examination (BSE), which is used by the University System of Georgia to determine satisfactory levels of performance. In order for the conditionally admitted students (students who scored below 750 on the SAT) to achieve regular status, he/she must attain a score of 63 or above on the BSE English test, reading test, mathematics test.

*On leave

Results of the three area tests determine whether such students will enroll in the regular freshman college program or the Special Studies Program. To illustrate: students whose test results (test scores of 63 or above) indicate a lack of serious deficiencies in the three areas considered, qualify for admission into the regular Freshman College Program. Such students are accorded full freshman status. However students who score below 63 on any area(s) of the BSE must enroll in the Special Studies Program with one of the following placements:

1. If there are academic deficiencies in English Communicative Skills, reading comprehension, and mathematics, only courses in Special Studies, physical activity, and freshman seminar will be taken.
2. If there are academic deficiencies in mathematics but an indication of likely success in English communicative skills and reading comprehension, the student will register for a Special Studies course in mathematics and for courses which carry regular college credit in academic areas for which mathematics is not a prerequisite.
3. If there are academic deficiencies in English Communicative Skills and reading comprehension but an indication of likely success in mathematics, students will register for Special Studies course in English Communicative Skills and reading comprehension and for courses which carry regular college credit in mathematics and/or science.

To successfully complete the Special Studies Program, a student must maintain at least a "C" average in classwork and attain the minimum score of 63 on the mathematics, reading, and/or English test(s). In addition to attaining a minimum score of 63 on the English test, a student enrolled in Special Studies English must satisfactorily complete a writing sample in accordance with the guidelines set by the University System of Georgia. If a student has a class average below "C", he/she will not be allowed to sit for the BSE. Furthermore, any student who does not satisfy the above criteria must repeat the courses, which he/she did not successfully complete during the subsequent quarter of his/her residency.

Students enrolled in Special Studies courses will have one academic year in which to demonstrate proficiency in courses or areas in which they were deemed deficient when they initially began matriculation at Savannah State College. Students who do not demonstrate the desired proficiency in English Communicative Skills, reading, comprehension, and mathematics within one academic year will not be allowed to continue matriculation at Savannah State College. They will be suspended for one academic quarter, unless they are given permission by an academic review board to remain an additional quarter to remediate deficiencies.

Upon satisfactory termination of all required Special Studies courses, students are admitted to the regular Freshman College program.

Students who are accorded Special Studies status will not be labeled as a separate group, and in all other considerations they will be regarded as regular students in the Freshman class.

Courses offered by the Department of Special Studies include the following:

ENG 97: English Fundamentals I - Basic Writing Skills
ENG 98: English Fundamentals II - Introduction to Composition
MAT 99: Mathematics Fundamentals
RDG 98: Reading Foundations I
RDG 99: Reading Foundations II

Special Studies courses will carry quarter hours credit and grades of A, B, C, D, and F will be given. Students receiving grades of D and F must repeat the course or courses in which such a grade was given during the next quarter they are in residence at Savannah State College.

The grades students earn in Special Studies courses will be determined by an evaluation of their course work and their performance on the Basic Skills Examination (BSE). Scoring at or above the Regents' cut-off score on the BSE is requisite for students' receiving a minimum passing grade of "C" in Special Studies courses.

Savannah State College will award only institutional credit for Special Studies courses. That is, quarter hours earned in Special Studies courses will not be counted as college credit, and grades earned in such courses will not be used in determining cumulative grade point averages.

DESCRIPTION OF COURSES FOR SPECIAL STUDIES

ENG. 97. ENGLISH FUNDAMENTALS I-COMPOSITION (5-0-5). English 97 is a comprehensive course in basic writing skills (sentence structure, grammar, usage, and mechanics) and the rudiments of paragraph development. English 97 is designed to help remediate language deficiencies of students who score extremely low (below 58)* on the English portion of the Basic Skills Examination.

*In addition to using the above cut-off scores to place students in English 97 and English 98, the Special Studies English faculty will administer a diagnostic writing sample at the beginning of each quarter to help place new students on an appropriate level of instruction.

Instruction and learning situations are offered in both the classroom and language laboratories. *All quarters*. Institutional credit only.

ENG. 98. ENGLISH FUNDAMENTALS II-READING AND WRITING (5-0-5). English 98 is the sequel to English 97, and like English 97, it is laboratory oriented. Additionally, English 98 offers instruction in paragraph development and the construction of the multi-paragraph theme. This course is designed for students who *successfully complete* English 97 or who *initially* scored above 57 but less than 63 on the BSE.* *All quarters*. Institutional credit only,

RDG. 98. READING FOUNDATIONS I. (5-3-5). This course is a basic requirement for students who do not achieve satisfactorily on the Basic Skills Test (BSE), which is developed and mandated by the Board of Regents, focuses attention on present reading and study habits. Arrives at means of improvement through directed practice and developing independence in learning through the application of adequate communication skills. *All quarters*. Institutional credit only.

RDG. 99. READING FOUNDATIONS II. (5-3-5). This course is a requirement for students who do not achieve satisfactorily on the Basic Skills Test, (BSE), who make some progress in RDG. 98 but are unable to exit the course, and who earn scores near the Regents' cut-off score. Focus on the corrective and recreational reading process, utilizing varying levels or reading materials. *All quarters*. Institutional credit only.

MAT 99. MATHEMATICS FUNDAMENTALS (5-0-5). A basic requirement for students who do not achieve satisfactorily on the Mathematics Placement Test, a component of the Basic Skills Examination (BSE). The number systems; measurements; equations; formulas; verbal analyses of problems; measurement of angles, triangles, circles, and polygons; elementary algebraic functions. *All quarters*. Institutional credit only.

DIVISION OF TECHNICAL SCIENCES

CLYDE W. HALL, *Chairman*

ORGANIZATION AND DEGREE PROGRAMS

The Division of Technical Sciences comprises instructional programs in engineering technology, home economics, and industrial teacher education. Instructional activities are organized within the Department of Engineering Technology and the Department of Home Economics. The former offers courses leading to the degree of Bachelor of Science, with majors in Civil Engineering Technology, Electronics Engineering Technology, and Mechanical Engineering Technology; and to the degree of Associate of Science, with majors in Civil Technology, Drafting and Design Technology, Electronics Technology, and Mechanical Technology. The three engineering technology curricula are accredited by the Engineers' Council for Professional Development. The Department of Home Economics offers courses leading to the degree of Bachelor of Science with majors in Dietetics and Institutional Management and Textiles and Clothing, and to a certificate in Dressmaking and Tailoring.

Offerings of this Division are designed to prepare graduates for immediate employment as professional and semi-professional workers in technical home economics and engineering technology. Intensive training for careers in these areas presupposes a good foundation in the applied Sciences.

INDUSTRIAL TEACHER EDUCATION

This Division offers the required laboratory work and special subject preparation for students who plan to teach industrial arts and trade and industrial subjects. The industrial arts education program does not prepare graduates for employment as skilled or semi-skilled workers in industry. On the contrary, it provides instruction in a variety of industrial laboratory activities. This instruction, augmented by appropriate general and professional education, prepares graduates to teach industrial arts in the secondary school.

The trade and industrial education program is designed for those who plan to teach trade and industrial subjects on a vocational basis in the secondary and area vocational schools. In order to pursue this program one must have learned an occupation in an area vocational-technical school and/or worked in industry in the occupation he is preparing to teach.

COOPERATIVE PROGRAM

The Division of Technical Sciences offers a cooperative program in trade and industrial education, engineering technology and other fields which enables students to gain practical work experience in industry as paid workers during their college years. This program is open to beginning sophomore students (46 quarter hours) with satisfactory academic records at the college and the specific qualifications of cooperating employers. The college does not guarantee the availability of work stations, kinds of work, or amount of compensation received under this program, but attempts to locate desirable employers and place students to their best educational and financial advantages.

Students in the cooperative program work in industry and attend classes at the college during alternating quarters or as arranged with an employer and are required to maintain creditable records, both in school and industry, in order to continue in this program. Persons in this program are considered by the college to be regularly enrolled students while they are employed in industry; therefore, they may not enroll in classes at any educational institution during the employment period. Students must observe all applicable regulations of the employing company and must consider themselves employees of the company while on the job.

Students pursuing this program will take five or more years to complete their requirements for the Bachelor's degree, and at the conclusion of the program they are not obligated to accept employment with cooperating companies and neither are the companies obligated to offer them employment.

DUAL DEGREE PROGRAM

Savannah State College has entered into an agreement with Georgia Institute of Technology to offer a Dual Degree Program whereby undergraduate students can attend this institution for approximately three academic years and the latter institution for approximately two academic years and receive baccalaureate degrees from both institutions. This program is open to majors in chemistry, mathematics, and civil, electronics, and mechanical engineering technology, it is coordinated by the Chairman of the Division of Technical Sciences.

Bachelor's degrees are offered at Georgia Institute of Technology as a part of this program in aerospace engineering, ceramic engineering, chemical engineering, civil engineering, electrical engineering, engineering economic systems, engineering science, industrial engineering, mechanical engineering, nuclear engineering, science in textile chemistry, science in textiles, and textile engineering.

In order for a student to become a dual degree candidate at Georgia Institute of Technology, he must have:

1. A college grade point average and specific test results which would indicate that he could satisfactorily complete the degree requirements at Georgia Institute of Technology.
2. A recommendation from the Chairman of the Division of Technical Sciences.
3. Completed 145-150 quarter hours at Savannah State College in the below listed courses according to his major.

GENERAL REQUIREMENTS

ENG 107-108-109 English Communicative Skills	15
HMN 232 Introduction to the Humanities	5
HIS 101-102 History of World Civilizations	10
HIS 200 History of United States	5
PSC 200 Government	5
CHE 101-102 General Inorganic Chemistry	10
PHY 201-202-203 Physics	15
MAT 212-213-214 Analysis I-II-III	15
MAT 404 Differential Equations	5
ENT 202 Statics	5
Total	90

CIVIL ENGINEERING TECHNOLOGY MAJOR

ENT 101-102-103 Engineering Drawing I-II-III	15
ENT 203 Dynamics	5
ENT 321-322 Strength of Materials I-II	10
CET 333-421 Surveying I-II	10
CET 302 Construction Planning, Equipment and Methods	5
TSC 233 Technical Report	2
MAT 107-108 College Algebra and Trigonometry I-II	10
TSC 322 Technical Science Seminar	1
Total	58

ELECTRONICS ENGINEERING TECHNOLOGY MAJOR

ENT 101-102 Engineering Drawing I-II-III	10
EET 201 Direct Current Circuits	5
EET 202 Alternating Current Circuits	5
EET 203-301 Electronics Principles I-II-III	10
EET 213 Electrical Machinery	5
EET 302 Electronics Circuits	5
EET 303 Pulse and Digital Circuits	5
MAT 107-108 College Algebra and Trigonometry I-II	10

TSC 223 Technical Report Writing	2
TSC 322 Technical Science Seminar	1
Total	58

MECHANICAL ENGINEERING TECHNOLOGY MAJOR

ENT 101-102-103 Engineering Drawing I-II-III	15
ENT 203 Dynamics	5
ENT 321-322 Strength of Materials I-II	10
MET 301 Materials and Processes	5
MET 312 Metal Fabrication	5
MET 313 Metal Machining Process	5
MAT 107-108 College Algebra and Trigonometry I-II	10
TSC 223 Technical Report Writing	2
TSC 322 Technical Sciences Seminar	1
Total	58

CHEMISTRY MAJOR

MAT 107-108 College Algebra and Trigonometry I-II	10
CHE 103 General Inorganic Chemistry	5
CHE 303-304-305 Analytical Chemistry	14
CHE 307-308-309 Organic Chemistry	14
CHE 313-409-410 Organic Preparation	4
GER 151-152 Elementary German	10
Total	57

MATHEMATICS MAJOR

MAT 107-108 College Algebra and Trigonometry I-II	10
MAT 217 Introduction to Probability and Statistics	5
MAT 315-316 Modern Algebra	10
MAT 318 Advanced Probability and Statistics	5
MAT 250 Computer Programming	5
MAT 320 Theory of Equations	5
Elementary French, German or Spanish	15
Total	55

**DEPARTMENT OF
ENGINEERING TECHNOLOGY**

LESTER B. JOHNSON, JR. *Head*

Ernest S. Brown	Min-Tai Pao
Rex C. Ma	Raymond D. Schlueter
John L. Mason	Charles W. Young
	Ching Yu
Michael C. Pratt, College-Industry Coordinator	

The ultimate objective of the engineering technology program is to provide the student with an educational experience that will

allow him to succeed as an engineering technologist. This involves keeping the student interested and providing opportunity for him to become skillful in his assimilation of information and techniques. When the student leaves he is aware of, and has fixed firmly in his mind, the potential of which he is capable.

Engineering technology embraces the physical sciences, mathematics, and the practices and materials of modern industry which are utilized in the design and construction of the machines, structures, highways, power sources, communication systems, and products needed to maintain a highly civilized society. The activities of engineering technology are concerned with translating the concepts and theories of professional engineers and scientists into actual devices and products by using tests to provide data for rational solutions and designs. These tests are followed by interpretations of data and preparation of appropriate plans for use by skilled craftsmen who produce the devices and/or products.

Thus, to prepare men and women with technical knowledge and skills essential to modern society, the Department of Engineering Technology offers courses in civil, electronics, and mechanical engineering technology. The Bachelor's Degree curricula in Civil Engineering Technology, Electronics Engineering Technology, and Mechanical Engineering Technology are accredited by the Engineers' Council for Professional Development, the national accrediting agency for engineering technology.

CIVIL ENGINEERING TECHNOLOGY

Accredited by the Engineers' Council for Professional Development

The curriculum in civil engineering technology is designed to provide ample instruction in those areas of knowledge required for successful performance in the following capacities as well as in other construction related positions.

Architectural and Structural Draftsman and Designer—plans, designs, and supervises construction of frame, steel, and concrete structures; makes architectural inspections and appraisals for architects and builders.

Highway Engineering Technologist—collects and tests soil samples, concrete and other materials to ascertain their physical characteristics for use in highway construction; establishes the location and measurements of points, elevations, lines, areas and contours of land needed for highway construction and prepares hard copy or rough draft drawings of same.

Estimator—determines quantities and costs of materials and labor required to erect structures.

Materials Tester—determines mechanical properties of materials used in the erection of structures and highways.

Surveyor—supervises, directs, and is responsible for the accuracy of the work of an engineering survey party engaged in determining the location and measurements of points, elevations, lines, areas, and contours on the earth's surface for purposes of securing data for building and highway construction, mapmaking, land valuation, mining, or other purposes.

ELECTRONICS ENGINEERING TECHNOLOGY

Accredited by the Engineers' Council for Professional Development

The electronics engineering technology curriculum provides instruction in the fundamentals of modern electronics theory, with emphasis on the application of theoretical principles to actual electronic devices, circuits and systems. Graduates of the electronics technology sequence are prepared to function in these positions.

Research and Development Technologist—engages in the development, building and testing of new equipment in the areas of digital electronics, communication electronics and guidance systems.

Process Control Technologist—supervises the operation of automatic control equipment for industrial processes.

Field Engineering Specialist—installs, tests, and maintains equipment such as data processing machines and other electronic systems.

High Frequency Technologist—maintains and/or operates radar, sonar, and other warning detection and navigation devices.

MECHANICAL ENGINEERING TECHNOLOGY

Accredited by the Engineers' Council for Professional Development

The mechanical engineering technology curriculum provides an opportunity for a student to receive comprehensive engineering experience which will enable him to design machinery, test materials and supervise production and engineering projects. A graduate of the mechanical engineering technology program is qualified to assume the responsibilities of these positions:

Machine Designer—designs machines and instruments for industry.

Mechanical Engineering Technologist—works with mechanical engineers on design and production projects.

Quality Control Supervisor—supervises incoming materials and outgoing products as well as manages personnel to assure quality.

Project Supervisor—manages technical personnel and materials to implement engineering projects.

Systems Test Technologist—participates in testing systems to determine if they meet design specifications.

MATHEMATICS MINOR

Students majoring in civil, electronics, or mechanical engineering technology may obtain a minor in mathematics by taking MAT 214 or 404 in addition to the required mathematics sequence.

ELECTRONICS-PHYSICS MINOR

Students majoring in mathematics may obtain an electronics-physics minor by taking EET 201-202-203 in addition to PHY 201-202 and 203.

ASSOCIATE OF SCIENCE DEGREE

The department offers a two-year program sponsored jointly with the Savannah Area Vocational-Technical School to combine the specialized technical development of the vocational-technical school with the general education curriculum of the College for the purpose of producing well qualified, employable technicians. The program is also designed to provide the necessary academic preparatory development of the individual so that he may continue his education in his specialty without penalty, if he so desires.

At the present time the program comprises four specific areas: Civil Technology; Drafting and Design Technology; Electronics Technology; and Mechanical Technology. Each curriculum requires 100 quarter hours for the degree. Fifty-five quarter hours are to be completed at Savannah State College and 45 quarter hours credit will be awarded for course work completed in the technical areas at the Savannah Area Vocational-Technical School. A maximum of 25 quarter hours of general education may be transferred from another approved college.

A student may be concurrently enrolled at both institutions or he may complete the required work at either institution before enrolling at the other. Participants will be governed by admissions requirements and all applicable academic regulations of the College and the Vocational-Technical School.

Each Associate of Science degree program will include the following courses:

ENG 107-108-109 English Communicative Skills	15
MAT 107-108 College Algebra & Trigonometry I-II	10
PHY 201-202 or 203 General Physics or	
CHE 101-102 General Chemistry	10
HIS 101, 102 History of World Civilizations	5

SOS 114 Psychology of Social Relationships	1
PSC 200 Government	5
TSC 322 Technical Sciences Seminar	1
ENT 210 Engineering Calculations	3
TSC 223 Technical Writing.....	2
PED Physical Education	3
	TOTAL 55

Technical courses taken at the Vocational-Technical School may be substituted for specified courses in each curriculum for those students who wish to seek a Bachelor of Science degree in Engineering Technology after completing the cooperative program.

CIVIL ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II — Mathematics and Natural Sciences: 20 hours required	
*Mathematics 108-109.....	10 hours
Physics 201-202	10 hours
Area III — Social Science: 20 hours required	
History 101-200	10 hours
Political Science 200.....	5 hours
Social Science 201	5 hours
Area IV — Courses Appropriate to the Major: 30 hours required	
Engineering Technology 101-102-103	15 hours
Mathematics 212-213-250.....	15 hours
Additional Requirements:	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 81 hours as specified	
Civil Engineering Technology 302-303-313-333	
401-403-411-412-413-421-422	55 hours
Engineering Technology 202-203-210-321-322	23 hours
Technical Sciences 223-322	3 hours

**Students whose score on the Mathematics section of the SAT is less than 400 must take the prerequisite course for Mathematics 108 or must pass the Mathematics 107 Exemption Examination.*

Specific Electives:

Chemistry 101, Economics 200, 10 hours

General Electives 7 hours

**ELECTRONICS ENGINEERING
TECHNOLOGY CURRICULUM**

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109 15 hours

Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

*Mathematics 108-109 10 hours

Physics 201-202 10 hours

Area III — Social Science: 20 hours required

History 101, 200 10 hours

Political Science 200 5 hours

Social Science 201 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Economics 5 hours

Engineering Technology 101-102 10 hours

Mathematics 212-213-250 15 hours

Additional Requirements:

Physical Education 6 hours

Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 82 hours as specified

Electronics Engineering Technology 103-201-202-203-213-
301-302-303-312-313-411-421-422-423-432 75 hours

Engineering Technology 210 3 hours

Technical Sciences 223-322 3 hours

Specific Electives:

Chemistry 101 5 hours

General Electives 12 hours

**Students whose score on the Mathematics section of the SAT is less than 400 must take the pre-requisite course for Mathematics 108 or must pass the Mathematics 107 Exemption Examination.*

MECHANICAL ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109 15 hours
Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

*Mathematics 108-109 10 hours
Physics 201-203 10 hours

Area III — Social Science: 20 hours required

History 101-200 10 hours
Political Science 200 5 hours
Social Science 201 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Engineering Technology 101-102-103 15 hours
Mathematics 212-213-250 15 hours

Additional Requirements:

Physical Education 6 hours
Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 83 hours as specified

Mechanical Engineering Technology 301-302-303-
312-313-330-340-401-402-403-420-421 52 hours
Engineering Technology 202-203-210-312-
321-322 27 hours
Technical Sciences 223-322 3 hours

Specific Electives:

Chemistry 101, Economics 200, 10 hours

General Electives 6 hours

MAJOR COMPREHENSIVE EXAMINATION

To satisfy the institutional requirements for the comprehensive examination, all students in engineering technology are required to take an examination administered by the department.

**Students whose score on the Mathematics section of the SAT is less than 400 must take the prerequisite course for Mathematics 108 or must pass the Mathematics 107 Exemption Examination.*

DESCRIPTION OF COURSES

ENGINEERING TECHNOLOGY (ENT)

101. ENGINEERING DRAWING (3-7-5). A study of drawing instruments, lettering, applied geometry, and orthographic projection. *Fall*.

102. ENGINEERING DRAWING II (3-7-5). Pictorial drawings, auxiliary views, sections; dimensions. Prerequisite: ENT 101. *Winter*.

103. ENGINEERING DRAWING III (3-7-5). Intersections and developments; working drawings; fasteners; gearing and cams; structural, architectural, and topographic drawings. Prerequisite: ENT 102. *Spring*.

104-5-6. ENGINEERING DRAWING PROBLEMS (3-7-5). Topics in engineering drawing are studied on an individualized basis. Each course may be substituted for ENT 101, 102, or 103. *Summer*.

202. STATICS (5-0-5). A study of Newton's laws, vectors, force systems, equilibrium, friction, and virtual work. Prerequisite: MAT 108. *Winter*.

203. DYNAMICS (5-0-5). A study of kinematics, kinetics, energy, power, momentum, and periodic motion. Prerequisite: ENT 202. *Spring*.

210. ENGINEERING CALCULATIONS (3-0-3). A course in integrated calculations covering selected topics of applied mathematics in surveying, design, mechanics, hydraulics, and electronics. Prerequisite: MAT 213.

312. ELECTRICAL POWER (3-2-4). Industrial applications of electrical power. AC-DC principles and their applications in motors; generators and transformers; electrical controls and auxiliary equipment including solid state devices; electrical lighting; and electrical power surveying. *Fall*.

321. STRENGTH OF MATERIALS I (3-4-5). A study of loading diagrams, force fields, stress, strain, elastic constants and deflection. Prerequisites: MAT 213, ENT 202. *Fall*.

322. STRENGTH OF MATERIALS II (3-4-5). A study of indeterminate structures, torsion, combined loads, instability, and fatigue. Prerequisite: ENT 321. *Winter*.

CIVIL ENGINEERING TECHNOLOGY (CET)

301. CONSTRUCTION MATERIALS (5-0-5). Methods used to manufacture lumber, stone and clay products, binders, concretes,

ferrous alloys, and non-ferrous metals and alloys. *Offered on demand.*

302. CONSTRUCTION PLANNING, EQUIPMENT AND METHODS (5-0-5). Job planning and management, CPM/PERT, construction equipment, operation analysis, tunneling, cofferdams, piles and pile-driving equipment, steel erection, concrete, and safety engineering. *Winter.*

303. HYDRAULICS (3-4-5). The analysis and design of hydraulic works, fluid properties, hydrostatic pressure, fluid motion, analysis of pipe flow, pipe systems, uniform flow in channels, pumps and turbines, and hydraulic models. *Spring.*

306. PROBLEMS IN CIVIL ENGINEERING TECHNOLOGY I (5-0-5). Topics and problems of special interest will be studied on an individualized basis. Can be substituted for a civil engineering technology course or elective at the discretion of the department head. Prerequisite: MAT 109 and consent of instructor. *Summer.*

313. TIMBER STRUCTURES (3-4-5). Characteristics and classifications of wood, working stresses, properties, design of structural members, timber connectors, codes, and design problems in light and heavy timber structures. *Spring.*

333. SURVEYING I (2-6-5). A study of surveying instruments; measurements of distances, elevations, angles, and directions; differential and profile leveling; calculating land areas. Prerequisite: MAT 108. *Fall.*

401. STRUCTURAL STEEL DESIGN (3-4-5). Scientific principles and drafting room practices involved in designing steel structures. *Fall.*

402. ESTIMATING (2-1-3). A study of the mathematical techniques used to estimate the cost of the equipment, labor, and materials involved in constructing highways and buildings. Prerequisite: CET 302 or consent of instructor. *Spring.*

403. ENVIRONMENTAL ENGINEERING (5-0-5). A survey course which emphasizes a practical approach to solving environmental problems by integrating the subject matter of the total curriculum into the solution. Emphasis is placed on the relationship of engineering technology projects to the environment and the effect of one upon the other. Prerequisite: CET 303 or consent of instructor. *Spring.*

406. PROBLEMS IN CIVIL ENGINEERING TECHNOLOGY II (5-0-5). See CET 306.

411. SOIL MECHANICS (3-4-5). A study of the theory of soil mechanics as applied to permeability, consolidation, shear strength, and unconfined compression. Atterberg limits, compaction tests, specific gravity, grain size, and classification of soils. Prerequisite: CHE 101. *Fall*.

412. REINFORCED CONCRETE DESIGN (3-4-5). Scientific principles and drafting room practices involved in designing reinforced concrete structures. *Winter*.

413. CONSTRUCTION CONTRACTING (4-2-5). Laws governing construction and the procedures used to express agreement in business transactions in construction. Emphasis is placed on the study of codes, contracts, specifications, estimating, and bidding as well as project planning and scheduling. Prerequisite: CET 302 or consent of instructor. *Winter*.

420. DESIGN PROJECT (2-6-5). The student correlates all previous information studied, and conceives, designs and develops the drawings, specifications, and estimate for an approved structure. Prerequisites: CET 313, 401, 412, 413. *All quarters*.

421. SURVEYING II (2-6-5). A study of land, route, and construction surveying. Prerequisite: CET 333. *Winter*.

422. HIGHWAY ENGINEERING (3-4-5). A study of the fundamentals of highway design including highway layout, foundations and pavements; grade intersections and separations; traffic requirements. Prerequisites: CET 411, 421. *Spring*.

ELECTRONICS ENGINEERING TECHNOLOGY (EET)

103. ELECTRICAL FUNDAMENTALS (3-4-5). A study of atomic theory and electron motion, resistance, potential, schematic diagram drafting and reading, printed circuit assembly and laboratory safety. Prerequisite: MAT 108. *Spring*.

201. DIRECT CURRENT CIRCUITS (3-4-5). Analysis of direct current circuits. Ohm's law, Kirchoff's voltage and current laws, series and parallel circuits, superposition theorem, Thevenin's theorem, inductors and capacitors. Prerequisite: MAT 108. *Fall*.

202. ALTERNATING CURRENT CIRCUITS (3-4-5). Analysis of alternating current circuits. Complex number, phasor, impedance, series and parallel AC circuits, resonance circuits and transformers. Prerequisite: EET 201. *Winter*.

203. ELECTRONIC PRINCIPLES (3-4-5). A study of basic theory and applications of semiconductor devices. Rectifier circuits, clipper circuits, clamper circuits and transistor biasing circuits. Prerequisite: EET 202. *Spring*.

213. ELECTRICAL MACHINERY (3-4-5). A study of DC and AC generators and motors, and their operating characteristics. Prerequisite: EET 202. *Winter*.

301. ELECTRONIC PRINCIPLES II (3-4-5). Continuation of EET 203. AC equivalent circuits of transistors, voltage amplifier, class A, class B and class C power amplifier circuits. Prerequisite: EET 203. *Fall*.

302. ELECTRONIC CIRCUITS (3-4-5). A study of JEET, MOS as well as BJT circuits and systems. Frequency response of amplifiers, positive and negative feedback circuits, and applications. Introduction to integrated circuits. Prerequisite: EET 301. *Winter*.

303. PULSE AND DIGITAL CIRCUITS (3-4-5). Principles of digital, pulse and switching circuits and their application in wave-shaping, time, logic circuits and computers. Discrete devices and integrated circuit are studied. Includes mathematical functions of digital principles such as Boolean algebra, binary numbers and codes. Prerequisite: EET 302. *Spring*.

304. SPECIAL PROBLEMS IN ELECTRONICS I (5-0-5). Topics and problems of special interest will be studied on an individualized basis. Can be substituted for an electronics engineering technology course or elective at the discretion of the department head. Prerequisites: MAT 109, EET 103 and consent of instructor. *Summer*.

310. ENERGY CONVERSION (2-0-2). The generalization, control and conversion of electric energy. Generalized theory of energy conversion devices such as DC, AC machines and transformers. Generalized machine and circuit models, transfer function, flow chart analysis and the application of Laplace transformation. Prerequisites: MAT 213, EET 213. Offered on demand.

311. ELECTRICAL MEASUREMENTS (3-4-5). Design and construction of electrical measuring devices such as ammeters, voltmeters, wattmeters, bridges, oscilloscopes, time marker generators, and thermocouples. Prerequisite: EET 203. *Fall*.

312. NETWORK ANALYSIS (5-0-5). Analysis of linear circuits. Development of transient and steady-state responses by Laplace transform and study of transfer function and frequency response. Prerequisite: EET 202. *Winter*.

313. COMMUNICATION ELECTRONICS (3-4-5). A study of devices, circuits and systems for the generation, processing and receiving of communication signals including AM, FM, Single Side Band, Pulse Modulation and TV Signals. Prerequisite: EET 302. *Spring*.

320. ELECTRONIC PROPERTIES OF MATERIALS (3-0-3). A study of the microscopic structure of materials. Crystal lattice, basis and atomic aggregations. Electronic behavior of insulator, conductor, semiconductor and their band structures. Physical properties of such materials as superconductors, ferroelectrics, diamagnetics, paramagnetics and ferromagnetics. Prerequisite: PHY 202. *Offered on demand.*

402. AMPLITUDE AND FREQUENCY MODULATION TRANSMITTERS (3-4-5). A study of RF power amplifiers, modulation techniques, transmission lines, exciters, single sideband transmission, reactance tubes, frequency multipliers, noise factors, limiters, bandwidth, and propagation. Prerequisite: EET 313. *Winter.*

404. SPECIAL PROBLEMS IN ELECTRONICS II (5-0-5). See EET 304. *Summer.*

410. ADVANCED NETWORK THEORY (3-0-3). Definition and analysis of lumped, linear, non-linear, time-invariant systems. Complex plane representation and analysis of system response. Discussion of the criterion for the physical realizing of impedance function and the fundamentals of network synthesis. Prerequisites: MAT 213, EET 312. *Offered on demand.*

411. INDUSTRIAL ELECTRONICS (3-4-5). A study of the necessary background for understanding the concept and utilization of various electronics devices, circuit and system which are essential in industrial control and automation. Prerequisites: EET 303, EET 312. *Winter.*

412. COMMUNICATIONS LAW (5-0-5). Federal regulations governing the use of electromagnetic radiation. *Offered on demand.*

413. SERVOMECHANISMS (3-4-5). A study of synchro generators, synchro motors, inertia damping, repeater systems, control transformers, and resolvers. Prerequisite: EET 303. *Spring.*

420. LOGIC CONCEPT OF DIGITAL COMPUTER (2-0-2). Mathematic foundation of electronic digital computer. Threshold logic concepts. Analysis, synthesis of sequential circuits and practical logic design. Prerequisites: MAT 250, EET 303. *Offered on demand.*

421. INTRODUCTION TO DIGITAL COMPUTERS (3-4-5). Theory and operational principles of fundamental digital computers. The sub-systems, which include the input-output equipment, the arithmetic unit, the memory unit, and the control circuit will be studied. Emphasis will be placed on basic circuitry as well as the logic tools of the system. Prerequisite: EET 303. *Fall.*

422. ELECTRIC AND MAGNETIC FIELDS (5-0-5). Basic electromagnetic theory and application. Major topics include vector, scalar and coordinate systems, forces, potentials and energy of electromagnetic systems. Prerequisites: MAT 213, ENT 210. *Winter*.

423. MICROWAVES (3-4-5). A study of the basic microwave technology in transmission lines, wave guides and cavities, The principle and practical aspects of microwave oscillator amplifier, power, antenna and current microwave active devices. Prerequisite: EET 422. *Spring*.

432. CONTROL SYSTEMS (3-4-5). A study of basic principles and concepts of automatic control systems. Transform techniques, transfer functions and transducers. Closed loop systems. Use of the analog computer in control system design. Prerequisites: EET 312, EET 411. *Winter*.

MECHANICAL ENGINEERING TECHNOLOGY (MET)

301. MATERIALS AND PROCESSES (5-0-5). A study of the more important materials and processes used by modern industries. Prerequisite: ENT 103. *Fall*.

302. KINEMATICS (2-4-4). Graphical and analytical methods used to determine displacements, velocities, and accelerations in mechanisms. Prerequisite: ENT 203. *Fall*.

303. MACHINE DESIGN I (2-4-4). A study of the design of shafts, springs, screws, belts, clutches, brakes, and connections. Prerequisites: MET 302, ENT 321 or consent of instructor. *Winter*.

305. PROBLEMS IN MECHANICAL ENGINEERING TECHNOLOGY I (5-0-5). Topics and problems of special interest will be studied on an individualized basis. Can be substituted for a mechanical engineering technology course or elective at the discretion of the department head. Prerequisites: MAT 109 and consent of instructor. *Summer*.

312. METAL FABRICATION (3-7-5). A study of various metal forming, joining and casting techniques using a variety of metals and processes. Study includes the care, set-up and operating principles of equipment. *Winter*.

313. METAL MACHINING PROCESSES (3-7-5). A study of lathes, milling machines, shapers, drill presses, grinders, saws, and other machine tools. Prerequisite: MET 312. *Spring*.

330. INDUSTRIAL ENGINEERING I (2-2-3). Introduction to Industrial Systems, plant layout and locations, materials handling and packaging, and other related topics. *Winter*.

340. INDUSTRIAL ENGINEERING II (2-2-3). Introduction to engineering economy, production and product control, time and motion studies and other related topics. Prerequisite: MET 330. *Spring.*

401. MACHINE DESIGN II (2-4-4). A study of lubrication, bearing design, gearing, interference fits, and impact loading; or suitable design problem. Prerequisite: MET 303. *Spring.*

402. THERMODYNAMICS (5-0-5). Fundamental principles of thermodynamics, with emphasis on applications. Prerequisites: MAT 213, CHE 101. *Spring.*

403. FLUID MECHANICS (3-4-5). A study of hydrostatics, viscosity, dimensionless constants, meters, gauges, and fluid flow in channels and pipes. Prerequisites: MAT 213, ENT 203. *Winter.*

405. PROBLEMS IN MECHANICAL ENGINEERING TECHNOLOGY II (5-0-5). See MET 305. *Summer.*

410. HEAT TRANSFER (2-0-2). Application of basic principles learned in thermodynamics to heat transfer processes, engines, boilers, heat exchangers and refrigeration. Prerequisite: MET 402. *Offered on demand.*

420. METALLURGY (3-4-5). A study of metals, alloys, and their properties. Instruction will include heat treating, metallography, and phase diagrams. Prerequisite: CHE 101 or consent of instructor. *Spring.*

421. MECHANICAL POWER (2-4-4). A study of various types of internal and external combustion engines. Study includes engine ratings, cycles, performance parameters, engine design, and construction. *Fall.*

TECHNICAL SCIENCES (TSC)

101. COOPERATIVE EDUCATION SEMINAR (1-0-1). Designed to prepare co-op students in developing a sense of appreciation for co-op work experience. Covers the rudiments of job interviewing, test consciousness and career planning. *All quarters.*

200. CONSUMERS' AUTOMOTIVE MAINTENANCE (1-2-2). Designed with the consumer in mind, and to provide information that will allow students to perform various functions that will help ensure a properly maintained automobile. Prerequisite: Ownership of or access to an automobile. *Fall, Spring.*

202-300-301-400. COOPERATIVE EDUCATION WORK EXPERIENCE (0-0-5). Student works full-time in industry under the

supervision of the Director of Cooperative Education. Each course has specific written requirements. *All quarters.*

214. RADIO OPERATOR'S LICENSING (5-0-5). Designed to provide students with the technical knowledge and regulation requirements for obtaining a FCC third class license with broadcast endorsement. Familiarization with the operation of citizen band (CB) radios and its accessories is also included. Prerequisite: ENG 107. *Offered on Demand.*

223. TECHNICAL WRITING (2-0-2). Reporting, writing technical reports, illustrating technical reports, research papers, oral reporting, group communication and participation. Prerequisite: ENG 109. *Fall, Spring.*

322. TECHNICAL SCIENCES SEMINAR (1-0-1). Covers a wide range of theory, techniques and application as related to the respective technical programs. Lectures by authorities in various fields and industrial tours are scheduled in order to stimulate interest in the respective fields. *Winter.*

405-6-7. COOPERATIVE/INTERNSHIP EXPERIENCE (0-0-5). Provided to accommodate students experiencing summer internships provided by the College as well as those students enrolled in the Cooperative Program. It may be substituted for TSC 202, 300, 301 or 400. *Summer.*

INDUSTRIAL ARTS EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II — Mathematics and Natural Sciences: 20 hours required	
Biology 123-124 or Chemistry 101-102	10 hours
Mathematics 107-108.....	10 hours
Area III — Social Science: 20 hours required	
History 101-200	10 hours
Political Science 200.....	5 hours
Social Science 201	5 hours
Area IV — Courses Appropriate to the Major: 30 hours required	
Art 103, 108 or 130	5 hours
Education 216	5 hours
Engineering Technology 101-102-103	15 hours
Physics 201	5 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 56 hours as specified

Industrial Arts Education 201-202-203-301-302

312-401-411-421 45 hours

Mechanical Engineering Technology 312-313 10 hours

Technical Sciences 322 1 hour

Teacher Education Sequence: 30 hours

Education 423-424 30 hours

General Electives 12 hours

MAJOR COMPREHENSIVE EXAMINATION

To satisfy the institutional requirement for the comprehensive examination, all students in industrial arts education are required to take both the common examination and the teaching area of the National Teacher Examination.

TRADE AND INDUSTRIAL EDUCATION CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109 15 hours

Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required

Biology 123-124 or Chemistry 101-102 10 hours

Mathematics 107-108 10 hours

Area III — Social Science: 20 hours required

History 101-102-200 15 hours

Political Science 200 5 hours

Area IV — Courses Appropriate to the Major: 30 hours required

Trade and Industrial Education 100-200-210 15 hours

Art 103, 108, or 130 5 hours

Education 216 5 hours

Social Science 201 5 hours

Additional Requirements:

Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 51 hours as specified

Trade and Industrial Education 300-301-302-303-421	25 hours
Trade and Industrial Education 311-313-401-402-403 or Technical Electives	25 hours
Technical Sciences 322	1 hour

Teacher Education Sequence: 30 hours

Education 334-424 or Trade and Industrial Education 431-432-433	30 hours
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Specific Electives:

Technical Sciences Electives	17 hours
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MAJOR COMPREHENSIVE EXAMINATION

To satisfy the institutional requirement for the comprehensive examination, all students in trade and industrial education are required to take the common examination of the National Teacher Examination.

DESCRIPTION OF COURSES

INDUSTRIAL ARTS EDUCATION (IAE)

201. WOOD PROCESSING I (3-7-5). Care of tools and machinery, basic hand and machine operations, materials selection, and finishing. *Fall*.

202. WOOD PROCESSING II (3-7-5). A study of the construction of more advanced projects by the use of power tools and machines, and woodfinishing. Prerequisite: IAE 201. *Winter*.

203. INDUSTRIAL ARTS DESIGN (3-7-5). Opportunities are provided for the development of design sensitivity and an appreciation for the aesthetic quality of products. Consideration is given also to the analytical and problem-solving procedures of the industrial designers. Prerequisite: ENT 103. *Spring*.

212. INDUSTRIAL MATERIALS (5-0-5). Sources, methods of refinement and preparation of tools and materials commonly used in industry. *Offered on demand*.

300. INDUSTRIAL ARTS FOR ELEMENTARY SCHOOL (3-7-5). Designed to help educators understand how tools, materials, and industrial processes may be used to vitalize and supplement the elementary school child's experiences. Opportunity for the construction of practical children's projects along with the building of classroom equipment will be provided. *Summer*.

301. ARCHITECTURAL DRAFTING (3-7-5). A study of house planning and the making of architectural working drawings. Prerequisite: ENT 103. *Fall*.

302. POWER MECHANICS (3-7-5). A study of the theory, operation and servicing of small gas, outboard, and automotive engines. Theoretical consideration is given to turbines, jet engines, turbo-jets, and rockets. *Winter*.

310. INTRODUCTION TO DRIVER EDUCATION (3-4-5). A study of driver and traffic safety education including a critical analysis of traffic accidents, attitude factors, automobile construction and traffic laws and regulations. Laboratory experiences include psycho-physical testing and behind-the-wheel development of driving skills. *Summer*.

312. GENERAL ELECTRICITY (3-7-5). The nature, forms and sources of electricity, conductors, insulators, electrical measurements, low voltage and residential wiring, electrical heating and lighting. Prerequisite: MAT 108. *Fall*.

320. ADVANCED DRIVER AND TRAFFIC SAFETY EDUCATION (3-4-5). The techniques of organizing, teaching and administering driver and traffic safety education programs at the secondary level. Each enrollee is required to teach at least one learner to drive a car. Prerequisites: IAE 310, a valid Georgia driver's license and at least two consecutive years of successful driving experience. *Summer*.

330. CAREER DEVELOPMENT IN THE ELEMENTARY SCHOOL (3-3-5). This course provides an opportunity for the student to develop techniques and skills needed to foster activity-based world of work programs at the elementary school level. Emphasis is placed on making the learner aware of the many kinds of wage earning jobs in America's industrial-technological society through the use of learning packets and construction activities. These are designed to reinforce learning in traditional academic subjects. Prerequisite: IAE 300. *Summer*.

400. INDUSTRIAL ARTS PRACTICUM (3-3-3). The application of modern industrial practices and concepts to industrial arts teaching. Prerequisite: Major senior standing. *Offered on demand*.

401. INDUSTRIAL ARTS ELECTRONICS I (3-7-5). Electromagnetism, relays, transformers, diodes, power supplies, test equipment, small project construction and trouble-shooting. Prerequisite: IAE 312. *Winter.*

402. INDUSTRIAL ARTS ELECTRONICS II (3-7-5). Transistors, solid state switches, audio amplifiers and systems, radio receivers and transmitters, motors and motor controllers, small project construction and presentation. Prerequisite: IAE 401. *Spring.*

403. SPECIAL INTEREST PROBLEMS (0-0-5). Typical problems related to technical knowledge and the execution of skills as revealed on the field. Can be substituted for industrial arts courses or electives at the discretion of the department head. Prerequisites: ENT 103 and consent of instructor. *All quarters.*

404. SPECIAL INTEREST PROBLEMS (0-0-3). See IAE 403. *All quarters.*

405. ADVANCED POWER MECHANICS (3-7-5). A study of a wide variety of power machines with increased emphasis on maintenance. Prerequisite: IAE 302. *Offered on demand.*

411. CURRICULUM BUILDING AND SHOP ORGANIZATION (5-0-5). A study of the techniques of curriculum development; shop organization and management. Prerequisite: EDN 334. *Winter.*

413. ELECTRICAL MOTORS (3-7-5). Fundamentals of AC and DC electric motors with emphasis on construction and repair of fractional horse-power motors and devices. Prerequisite: IAE 312. *Spring.*

414. SPECIAL INTEREST PROBLEMS (0-0-1). See IAE 403. *All quarters.*

421. METHODS OF TEACHING INDUSTRIAL ARTS (5-0-5). Lesson plan making, shop demonstrations, use of a variety of instructional media, measuring achievement, and the various methods of teaching industrial arts. Prerequisite: EDN 334. *Winter.*

490. WORLD OF CONSTRUCTION (3-7-5). Preparation for the teaching of basic knowledge and skills of the construction industry as developed by the Industrial Arts Curriculum Project. *Offered on demand.*

495. WORLD OF MANUFACTURING (3-7-5). Preparation for the teaching of basic concepts of management, personnel and production techniques for creating finished goods in a plant or factory as developed by the Industrial arts Curriculum Project. *Offered on demand.*

TRADE AND INDUSTRIAL EDUCATION (TIE)

100-200-210-300. COOPERATIVE INDUSTRIAL WORK EXPERIENCE (0-0-5). Student works in industry under the supervision of a college coordinator to gain practical work experience in the occupational area he plans to teach. If the student has prior acceptable work experience in his occupational area, credit will be granted in these courses proportionately. *All quarters.*

201. ELECTRONICS TECHNOLOGY UPDATE (3-7-5). Designed to update the electronic content in integrated solid-state circuits and to modify existing instructional units. Techniques will be developed for implementing individualized instruction. *Summer.*

203. TECHNIQUES OF TEACHING VOCATIONAL EDUCATION (5-0-5). An introductory course for teachers of occupational education involving selection, organization and methods of instruction. *Offered on demand.*

205. TELEVISION TECHNOLOGY-UPDATE (2-1-3). Designed to provide state-of-the-art training for radio and TV instructors in post-secondary vocational schools. *Summer.*

206-7. MICROPROCESSORS I, II (3-7-5). Designed to update the electronic content in the area of microprocessors and microcomputers. Techniques and approaches will be developed for teaching and implementing self-paced instructional materials on content. *Summer.*

210. ELECTRONICS UPDATE INTERNSHIP (0-0-5). Designed to assess the degree to which the instructor has integrated his workshop experiences in his teaching program. Assistance and suggestions will be provided where needed. *Summer.*

213. VOCATIONAL GUIDANCE (5-0-5). A study of the meaning, purposes, techniques, and problems of vocational guidance.

301. HISTORY OF VOCATIONAL EDUCATION (5-0-5). A study of the development of vocational-industrial education in the United States with emphasis on personalities and economic and technical developments that influenced its growth.

302. INDUSTRIAL EDUCATION CURRICULUM (5-0-5). A study of course making and curriculum development with emphasis on organizing instructional materials for vocational-industrial education programs. Prerequisite: EDN 334. *Winter.*

303. SHOP MANAGEMENT (5-0-5). A study of the sources of materials, means of purchasing, methods of inventorying; systems of

arranging, installing, maintaining, storing and issuing shop tools and equipment.

311-313-401-402-403. COMPETENCY IN OCCUPATION (0-0-5). Graduates of vocational-technical schools and others with occupational competency in an appropriate trade and industrial teaching field may receive credit by successfully passing occupational competency examinations or other evidences of competency.

323. OCCUPATIONAL ANALYSIS (5-0-5). A study of the techniques of defining, identifying, classifying, organizing and expressing essential teachable elements of occupations for instructional purposes.

410. INSTRUCTIONAL AIDS (5-0-5). This course is designed to motivate and teach trade and industrial education teachers to design, construct, and use all types of instructional aids which will facilitate teaching and learning in vocational education.

412. INDUSTRIAL HYGIENE (5-0-5). A study of industrial accidents and their social and economic consequences. Special consideration is given industrial safety.

414. INDIVIDUALIZED INSTRUCTION (5-0-5). A study of the different types of self-paced instructional systems. Emphasis is placed on the development of individualized instructional materials.

416. MODERN TECHNIQUES OF EVALUATION (5-0-5). A study of teacher-made and standardized psychological achievement and personality tests, and the statistical methods employed in their use.

421. METHODS OF TEACHING INDUSTRIAL SUBJECTS (5-0-5). The techniques of making lesson plans, giving shop lectures and demonstrations, writing instruction sheets, using a variety of instructional media, and measuring student achievement in trade and industrial education. Prerequisite: EDN 334. *Winter.*

431-432-433. TEACHING INTERNSHIP IN TRADE AND INDUSTRIAL EDUCATION (0-0-5). A cooperative undertaking between the college and public school system to provide college supervision for employed permit trade and industrial education teachers. This experience is for one academic term and may be taken in lieu of EDN 424. Prerequisites: EDN 334, TIE 302, 421; vocational teaching permit; full-time employment as a trade and industrial education teacher; approval of teacher's employer. *All quarters.*

DEPARTMENT OF HOME ECONOMICS

SARAH HARPER, *Acting Head*

Teresa A. Anthony
Martha M. Corley

Diana Wagner

PHILOSOPHY AND PURPOSE

The philosophy of the home economics profession is to help stabilize family life as the core of society and to constantly reassess values and goals in terms of academic principles of education. To this end the Department of Home Economics proposes to:

1. Help students develop and clarify values which will help them acquire understanding, skills and abilities which make a constructive contribution to family, home and community life situations now and in the future;
2. Become knowledgeable and concerned about relationships and responsibilities to the well-being of people within the greater society;
3. Prepare students for the professional vocations in dietetics and institutional management, and textiles and clothing;
4. Provide a child development sequence for elementary education majors, enabling them to pursue a teaching career in early childhood education, K-3rd grade;
5. Provide an interdisciplinary social science major outreach with a minor in the disadvantaged and handicapped families.

GENERAL PROGRAM

The following four-year academic curricula in the Department of Home Economics leads to the Bachelor of Science Degree in two areas of specialization: Dietetics and Institutional Management, and Textiles and Clothing.

A total of 195 quarter hours is required in the Dietetics and Institutional Management curriculum and 195 quarter hours in the Textiles and Clothing Curriculum.

RECOMMENDED WORK COMMITMENTS

Students who carry half-time or greater work loads should adjust their schedules accordingly to meet college academic standards of performance.

DIETETICS AND INSTITUTIONAL MANAGEMENT.

Students who major in Dietetics and Institutional Management comply with a curriculum prescribed by the American Dietetics Association. Upon graduation students are eligible for appointments as student dietetic interns in ADA approved hospitals, educational or industrial institutions. Upon completion of the fifth year of training, career positions as dietitians are available in specialized branches of the Federal Government, public, private and educational institutions.

Membership in the American Dietetic Association is available upon application. The distinction of Registered Dietitian (R.D.) is obtained through examination after the completion of the internship.

TEXTILES AND CLOTHING

Textiles and Clothing majors are prepared to find careers in merchandising and retailing in department stores and boutique shops as personal shoppers, clothing analysts, comparison shopper analysts, fashion coordinators, fashion buyers, apparel designers, fabric care home economist and retail promotion salesmen. Sufficient technical background is given for a career as a textile tester. Individual enterprises such as interior decorator or fabric shop specialist may be established. ART 152, 232 with additional clothing design in T&C 231, 355 and 463, offer enriched training for prospective design students. ART 304 and 430 are recommended costume design electives.

PRE-PROFESSIONAL MOTIVATION AND ENRICHMENT

The perspective of students in the Department of Home Economics is broadened and enriched through required field trips, junior internships and experience affiliations with selected food service institutions and social welfare and textile merchandising establishments. The student defrays the cost of all local and special trips.

Since 1950 the Department of Home Economics has supported and directed the Savannah State College Chapter of the American Home Economics Association.

MINOR

Upon consent of the Department Head, a student may elect any sequence of courses to qualify for a minor field.

INTERDISCIPLINARY PROGRAMS

In addition to the Home Economics degree programs, the Department offers two interdisciplinary programs as described below.

Minor in Early Childhood Education

The training of teachers for early childhood education is a function of the Department of Home Economics in cooperation with the Division of Education. The inclusion of nursery schools and kindergartens in public education provides avenues for immediate employment as teachers upon graduation. The Early Childhood Education curriculum is listed under the Division of Education.

To be certified and recommended for the Early Childhood Education Certificate, the following specialized courses are required:

CHD 351 Child Development and Guidance
CHD 453 Activities and Materials for Early Childhood Education
CHD 454 The Child and His Family
NTR 452 Nutrition for Children

Early Childhood Education Curriculum

CHD 351 Child Development and Guidance	5
CHD 453 Activities and Materials for Early Childhood	5
CHD 454 The Child and His Family	5
CHD 460 Special Problems of the Pre-School Child	5
FAL 406 Family Relationships	5
NTR 452 Child Nutrition	5
	30

Minor in Disadvantaged and Handicapped Families

This program is designed for social science majors whose interest is in improving the life-style of low income families and children, and other disadvantaged and handicapped persons.

Disadvantaged and Handicapped Families Curriculum (Minor Option)

Recommended Elective Sequence:

CHD 351 Child Development and Guidance
CHD 454 The Child and His Family
FAL 342 Consumer Economics
FAL 400 Contemporary Problems in Business, Home, Industry
FAL 406 Family Relationships
FDS 301 Family Foods
T&C 300 Contemporary Clothing Selection

TERMINAL COURSE

DRESSMAKING AND TAILORING

Intended for graduates of approved high schools, this program is designed for persons who desire to specialize in dressmaking or tailoring and become owners of small specialty shops or boutiques. A certificate is earned by two year graduates. Eighty-five to ninety quarter hours are required for a certificate.

ASSOCIATE OF SCIENCE DEGREE IN EARLY CHILDHOOD EDUCATION

The Department offers a two-year program sponsored jointly with the Savannah Area Vocational-Technical School, to combine the specialized technical development of the area vocational-technical school with the general education curriculum of the college for the purpose of producing well qualified employable persons.

The curriculum requires 100 quarter hours for the degree; fifty-five quarter hours to be completed at Savannah State College, and 45 quarter hours for course work completed in the specialized area at the vocational-technical school.

Each participant will be governed by admissions requirements, and all applicable academic regulations of Savannah State College and Savannah Vocational-Technical School.

The program will include the following courses:

ENG 107-108-109 English Communicative Skills	15
HIS 101-102 History of World Civilization	10
BIO 123-123 General Biology or	
CHE 101-102 General Chemistry	10
PSC 200 Government	5
MAT 107 College Algebra & Trigonometry	5
PED Physical Education	5
CHD 454 The Child and His Family	5
	55

DIETETICS AND INSTITUTIONAL MANAGEMENT CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II — Mathematics and Natural Sciences: 20 hours required
 Mathematics 107..... 5 hours
 Chemistry 101-102 10 hours
 Physics 201 5 hours

Area III — Social Sciences: 20 hours required
 Social Science 201 5 hours
 Political Science 200 5 hours
 History 101, 200 10 hours

Area IV — Courses Appropriate to the Major: 30 hours required
 Art 130..... 5 hours
 Accounting 201 5 hours
 Biology 315 5 hours
 Foods 212 5 hours
 Textiles and Clothing 152, 231 10 hours

Additional Requirements:
 Physical Education 6 hours
 Social Science 114 1 hour

SENIOR COLLEGE CURRICULUM:

Requirements: 99 quarter hours

Major Requirements: 85 hours as specified
 Foods 319-335-431 13 hours
 Institutional Management 319-433 10 hours
 Biology 306-307 10 hours
 Chemistry 307-404 10 hours
 Business Administration 412 5 hours
 Economics 201 5 hours
 Education 302 5 hours
 Home Economics 107-471 2 hours
 Art 330..... 5 hours
 Family Life 406 5 hours
 Nutrition 316-351-451 15 hours

Specific Electives 14 hours
 Humanities 233-234 9 hours
 History 102 5 hours

TEXTILES AND CLOTHING CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I — Humanities: 20 hours required
 English 107-108-109 14 hours
 Humanities 232 5 hours

Area II — Mathematics and Natural Sciences: 20 hours required	
Mathematics 107.....	5 hours
Chemistry 101, 102	10 hours
Physics 201	5 hours

Area III — Social Science: 20 hours required	
Social Science 201	5 hours
Political Science 200.....	5 hours
History 101, 200	10 hours

Area IV — Courses Appropriate to the Major: 30 hours required	
Biology 315.....	5 hours
Foods 212	5 hours
Textiles and Clothing 152, 231	10 hours
Accounting 201	5 hours
Art 130.....	5 hours

Additional Requirements:	
Physical Education	6 hours
Social Science 114	1 hour

SENIOR COLLEGE CURRICULUM:
Requirements: 98 quarter hours

Major Requirements: 70 hours as specified	
Textiles and Clothing 351-357-355-450-457-465	30 hours
Art 232-330-420.....	15 hours
Foods 319	3 hours
Business Administration 306.....	5 hours
Child Development 351	5 hours
Family Life 342, 406	10 hours
Home Economics 101, 471	2 hours

Specific Electives: 19 hours	
Chemistry 307-310	10 hours
Humanities 233-234	9 hours

General Electives	9 hours
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DESCRIPTION OF COURSES
APPLIED ART (ART)

130. APPLIED ART PRINCIPLES (2-3-5). Fundamental principles of art and their practical application in the use of color, line and form. Emphasis is placed upon recognition and appreciation of beauty in the immediate surroundings. *Spring.*

232. COSTUME DESIGN (2-3-5). Study of dress with emphasis on line and color in relation to the individual. Problems include

figure drawing, planning a personal wardrobe, adapting current and historic modes to individual appearance, creating color ensembles, correcting the figure with designs, and improving poor selection. Prerequisite: ART 130. *Fall*.

234. ADVANCED DESIGN (1-2-3). Further practice in the application of color in line and form. Creative expression in various types of art media. Prerequisite: ART 130. *Fall. Elective*.

330. INTERIOR DESIGN (2-3-5). Planning, designing, and decorating single rooms, apartments, and houses to meet personal and family problems involved in present-day aesthetic needs; house plans and arrangements; furnishings and color; treatment of backgrounds. Prerequisite: ART 130. *Winter*.

340. HISTORY OF COSTUME (5-0-5). The historical, literary, and artistic background of the costumes of various countries from early civilization to the present. Prerequisite: ART 232, or the equivalent. *Winter, Spring. Elective*.

346. ADVANCED COSTUME DESIGN (2-3-5). Creative designing for the fashion figure; sources of fashion inspiration; factors in fashion trend and acceptance. Prerequisite: ART 232. *Winter, Spring*.

420. CREATIVE CRAFTS-WEAVING (2-3-5). Techniques of weaving on four-harness table and floor looms; creative drafting and pattern weaving; design, color, and texture applied to textile construction; recent trends and developments. Prerequisites: ART 130, 330. *Winter, Spring*.

CHILD DEVELOPMENT (CHD)

351. CHILD DEVELOPMENT GUIDANCE (3-2-5). The physical, mental, emotional, and social development of children in early childhood and the interrelating environmental factors influencing the development of the young child. Special reference to techniques and guidance. Prerequisite: EDN 317 or equivalent. *Fall, Winter*.

453. ACTIVITIES AND MATERIALS FOR EARLY CHILDHOOD EDUCATION (3-2-5). Principles underlying space needs and the selection and uses of materials for creative experiences; with stories, music, literature, art, nature study and other creative media for meeting developmental processes of the young child. Scheduled supervised classroom experience in nursery school, kindergarten or early elementary grades, devoted to observation, participation, teaching and professional involvement commensurate with students' readiness. Prerequisites: CHD 351, EDN 216, 429, 305, completion of English requirements and major field subjects. *Winter, Spring*.

454. THE CHILD AND HIS FAMILY (5-0-5). The interrelationships of the child and the family through the stages of the family's life cycle. Emphasis on effects of home and family conditions on development of children. *Fall, Summer.*

460. SPECIAL PROBLEMS OF PRE-SCHOOL CHILDREN (5-0-5). Study of the social and emotional adjustment of "normal" children, ages 2-5. Emphasis placed on balancing those factors which are preventable and help in resolving difficulties; the teacher's insight and understanding of the child's personality, needs and problems. Prerequisite: CHD 351. *Fall, Spring.*

465. CREATIVE DEVELOPMENT FOR THE YOUNG CHILD (2-3-10). Experience in selecting and presenting art and dramatic activities with a variety of media; finger plays, music rhythm, selected art materials. Prerequisite: CHD 351. *Summer.*

FAMILY LIFE (FAL)

342. CONSUMER ECONOMICS (5-0-5). Consideration is given to pertinent factors of production, marketing, purchasing, and maximum use of household goods. *Winter, Spring.*

400. PERSONAL CONTEMPORARY PROBLEMS OF THE HOME BUSINESS AND INDUSTRY (3-0-3). A broad interdisciplinary course in general education, designed for students with limited backgrounds in business, industry, and advantaged family living. The course covers topics in American industrial and business organization, international economy, general investments, and essentials for satisfying family living. *Fall, Winter, Spring.*

401. NEWER TRENDS IN FAMILY LIVING (5-0-5). Consideration of newer concepts of family living in a changing world. Problems concerning sociological pressures on the family as a consumer in an affluent society. *Spring, Summer.*

406. FAMILY RELATIONSHIPS (5-0-5). Designed to acquaint students with the significance of marriage, the relationships between various members of the family group, and the degree to which the interplay of personality within the family is affected by culturally conditioned attitudes and needs. *Fall.*

445. HOME MANAGEMENT PROBLEMS (1-30-5). (Formerly Home Management Residency.) A Laboratory course designed to prepare young people for family living in a changing society. Problems in living are developed on three levels of income with complementary environmental backgrounds. Experience offered five days per week from breakfast through dinner. Laboratory fees cover cost of meals. Juniors by consent of instructor. Prerequisites: FDS 319, FAL 406. *Fall, Winter, Spring.*

FOODS (FDS)

212. PRINCIPLES OF FOOD PREPARATION (3-2-5). Composition, nutritive value, cost, and processing of different foods. Chemical and physical properties of foods are emphasized in the techniques of basic food preparation and the development of food standards. *Winter.*

300. FAMILY FOODS (1-2-3). A lecture demonstration course on the selection, preparation and use of food in relation to health and well-being of the individual family and the needs of society. Joint planning by faculty and students on special projects. Non-majors only. *Spring, Summer.*

319. MEAL MANAGEMENT (1-2-3). Planning, preparation, and serving attractive and appropriate meals for the family, according to its nutritive needs; stressing time, energy, and money management. Prerequisite: FDS 212. *Spring.*

334. THE SCHOOL LUNCH (1-2-3). Practical experience in planning nutritious menus for larger groups at various age levels. The preparation and service of foods in quantity. Facilities of the College Cafeteria and the Nursery School are used for practice work. Prerequisite: FDS 319. *Spring.*

353. INSTITUTIONAL EQUIPMENT (4-1-5). A study of layouts for institutional use; selection of equipment, including materials, construction, installation, care, and relative cost. Field trips arranged. *Spring.*

433. ORGANIZATION AND MANAGEMENT (4-1-5). The organization and administration of various types of institutions. Field trips arranged. *Spring.*

460. CATERING (2-1-3). Food production menu making, cost computation, and service for special occasions. Prerequisite: FDS 335 or consent of instructor.

NUTRITION (NTR)

316. NORMAL NUTRITION (3-2-5). A study of the science of nutrition and its application to the nutritional requirements of individuals at various age levels. Practical problems in dietary calculations. Prerequisite: CHE 307. *Fall.*

351. NUTRITION AND DIETETICS (3-2-5). The chemistry of nutrition in relation to metabolic processes. Prerequisites: NTR 316, CHE 102, 307. *Winter.*

451. DIET THERAPY (3-2-5). Hospital administration as related to hospital dietetics. Application of principles of nutrition to the normal diet and to abnormal conditions; planning and preparation of special diets. Prerequisites: NRT 351, CHE 404. Field work. *Spring*.

452. NUTRITION FOR CHILDREN (3-2-5). The study of normal growth patterns and the principles involved in meeting the nutritional requirements of preschool and early school age children. Laboratory work in nursery school and elementary school lunchrooms. *Winter*.

455. FIELD WORK IN NUTRITION (1-2-3). Opportunities to observe and participate in the activities of welfare and public health agencies with problems relating to the promotion of better nutrition and the general welfare of individuals and selected groups. Field problems. *Winter, Spring*.

461. METHODS OF TEACHING NUTRITION (3-0-3). Techniques and materials for presenting instruction in nutrition to persons of all age levels. Practical experience in presenting materials provided through work with elementary school teachers and pupils and disadvantaged or handicapped adults. Prerequisites: senior status, consent of instructor, NRT 316, ART 130. *Winter*.

463. NUTRITION SEMINAR (1-0-1). Critical study of historical and current literature on energy metabolism, proteins, fats, carbohydrates; vitamins, and minerals. Prerequisite: NRT 351. *Spring*.

TEXTILES AND CLOTHING (T&C)

152. ELEMENTARY TEXTILES (3-2-5). The study of structure, composition, physical and chemical properties of natural and man made fibers. Fundamental weaves, yarns, finishes with reference to uses and care that affect consumer choices. Prerequisites: CHE 102, 310. *Fall*.

231. CLOTHING CONSTRUCTION (2-3-5). The construction and design of commercial patterns and methods of alteration. Understanding basic construction techniques in relation to fabric design, special types of fabrics and their application to garment construction. Prerequisite: T&C 152. *Spring*.

300. CONTEMPORARY CLOTHING SELECTION (1-2-3). Experience is provided in the use of commercial patterns, fitting and clothing construction. Problems based on personal interests with aspects of sociological and psychological influences. Non-majors only. *Spring, Summer*.

315. FAMILY AND CHILDREN'S CLOTHING (2-3-5). A study of the clothing needs during the various stages of the family cycle with consideration of various socio-economic groups. Opportunity is provided for planning, selecting, constructing, and buying apparel for family members. Elective. *Fall*.

351. ADVANCED DRESSMAKING (2-3-5). Experiences in the planning, fitting and construction of designer garments. Some flat pattern methods and related garment construction. Prerequisite: T&C 231. *Winter*.

440. DRAPING AND DRESS DESIGN (2-3-5). Increased understanding of garment fit and control of fabric grain is acquired through the techniques of draping. Advanced technique and skill in clothing construction are developed through the creation and execution of an original design. Prerequisites: ART 130, 232; T&C 351, or equivalents. *Winter*.

357. TAILORING (2-3-5). A course designed to introduce students to tailoring techniques and methods construction of tailored garments using woolen fabrics. Prerequisite: T&C 351. *Fall*.

450. ADVANCED TEXTILES (3-2-5). A study of factors which predetermine fabric appearance and performance. Analysis based on appropriate physical and chemical tests for quality differences in fabrics due to variation of fibers, content, structure, and finishes. Prerequisite: T&C 152. *Spring*.

457. TEXTILES IN HOME FURNISHINGS (4-1-5). A study of the factors related to the materials, selection, comparative cost, performance and care of textiles and fabrics used in home furnishings. Prerequisites: T&C 152, ART 232, 330. *Winter*.

463. ADVANCED TAILORING (2-6-5). Continuation of techniques and processes used in tailoring 357 with construction of coat, suit and tailored dress. Use of hand details and appropriate finishes for problems. Prerequisite: T&C 357. *Winter, Spring*.

465. FIELD PROBLEMS IN CLOTHING AND MERCHANDISING (1-100-5). A practicum associated with the financial management, administrative practices, human relations and policy development of clothing store operation. By special arrangement, the laboratory may be taken during the summer before the senior year. Off-campus experience is arranged through the Department of Home Economics. Three weeks seminar period, five hours per week, required before going on the field for 100 hours of experience or training.

FACULTY

PROFESSORS

- Venkataraman Anantha Narayanan....*Mathematics and Physics*
B.Sc., M.Sc., Annamalai University; Ph.D., Indian Inst. of Science
- Hayward S. Anderson *Business Administration*
B.S., Savannah State College; B.S., Northwestern University;
M.B.A., New York University; D.B.A., Harvard University
- Joseph Anderson *Spanish*
A.B., Morehouse College; M.A., Atlanta University; Ph.D., University of Texas
- Clifford V. Burgess *Education*
A.B., Mercer University; M.A., George Peabody College; Ed.D., Auburn University
- Thomas H. Byers *Social Science*
A.B., Johnson C. Smith University; M.A. University of Michigan; Ph.D., Ball State University
- Kailash Chandra *Mathematics and Physics*
B.S., M.S., Agra University; Ph.D., University of Gorakhpur
- John B. Clemmons *Mathematics*
B.S., Morehouse College; M.S., Atlanta University
- James A. Eaton *Education*
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- Ida J. Gadsden *Education*
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- Gian S. Ghuman *Earth Sciences*
B.S., M.S., Punjab University; Ph.D., University of California
- Thelma M. Harmond *Education*
B.S., Fort Valley State College; M.Ed., Atlanta University; Ph.D., Ohio State University
- Lawrence Harris *Social Science*
B.A., Baylor University; M.A., University of California, Ph.D., University of Santo Tomas

*On Leave 1978-79.

**Departs 1 September 1978

- Jeraline D. Harven *Business Education*
B.S., Tennessee State University; M.S., Ed.D., Indiana University
- Raymond W. Hopson *Physical Education*
B.S., Hampton Institute; M.A., Ph.D., Ohio State University
- Sigmund Hudson *Mathematics*
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- Frissell R. Hunter *Biology*
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- ¹Joseph I. Killorin *Literature and Philosophy*
Callaway Professor Armstrong State College
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- Pullabhotla V. Krishnamurti *Biology*
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ASSOCIATE PROFESSORS

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LIBRARY STAFF

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- Madeline Allen *Library Assistant II*
- Carolyn Harris *Library Assistant I*
- Francena Johnson *Library Assistant II*
- Joanne Quarterman *Library Assistant I*
- Heloweze Cooper *Library Assistant I*

Patricia Kleinhans *Library Assistant I*
 Evelyn Richardson *Library Assistant III*
 Emma Osborne *Library Assistant III*
 Margaret Mitchell *Secretary*
 Verdell Wright *Library Assistant II*
 Indira Kogant *Library Assistant II*

COMPUTER CENTER STAFF

Carolyn Witt *Director, Computer Services
and Management Information System*
 Donald Shavers *Programmer-Analyst*
 Ellen Hall *Keypunch Operator*
 Daisy Roberts *Clerk*

ADMINISTRATIVE STAFF

Jayalakshmi Anantha Narayanan *Director, Secretarial
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 B.S., Madras University
 Rachel Claiborne *Guidance Counselor*
 A.B., Chaflin College; M.Ed., South Carolina State College
 Bernard Conyers *Office Supervisor,
Office of the Comptroller*
 Beautine W. Hardwick *Administrative Assistant to the
President of the College and
Acting Director of Public Relations*
 B.S., Savannah State College
 Thelma Harris *Internal Auditor,
Office of the Comptroller*
 B.S., C.P.A.
 Edna Jackson *Information Counselor*
 B.S., Savannah State College; M.Ed., Savannah State College—
 Armstrong State College
 Shirley James *Guidance Counselor*
 B.S., Spelman College; Ed.M., Howard University

Gwendolyn Jones *Assistant College Nurse*
L.P.N., Savannah Vocational-Technical School

William H. Kalman *Laboratory Technician*
Division of Technical Sciences

Venkatarathnam Koganti *Internal Auditor,*
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B.S., M.B.A.

Henri Lambert *Assistant College Nurse*
L.P.N., Harris Area Trade School

Anne Logan *Constituency Research Specialist,*
Office of Development

Stephen McDew, Jr. *College Physician*
B.S., Savannah State College; M.D., Meharry Medical College

John Merritt *Director of Procurement*
Savannah State College

Shevon Brown *Accountant*

Aubrey Mumford *Director, Adams Hall*

Alvin Ogden *Manager, Warehouse*

Savita Raut *Accountant*

Harold Singleton *Bookstore Manager*
B.S., Savannah State College

Yvonne Stevens *Guidance Counselor*
B.S., Hampton Institute; M.S., M.Ed., Atlanta University

Henton Thomas *Director of Comprehensive*
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Jeanette Westley *Supervisor of Accounting and Payroll*
B.S., Savannah State College

Herbert C. White *Director of Plant Operations*
B.S., Alabama A & M College

EXTENDED SERVICES PERSONNEL

Rosemary Banks, M.A. *(Acting) Director*
of Extended Services

Jackie Boston	<i>Secretary</i>
Hilda Cross	<i>Tutor Counselor</i>
Brenda Groover	<i>Director of Homestudy</i>
Diane H. Johnson	<i>Program Coor. ESSA</i>
Ormonde Lewis	<i>Director of ESSA</i>
James Manning	<i>Tutor Counselor</i>
Sallye McDougal	<i>Human Relations Special</i>
Deborah Ransom	<i>Cont. Ed. Coordinator</i>

COOPERATIVE EDUCATION

Janice Ramsey	<i>Project Director</i>
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COMPREHENSIVE COUNSELING

Henton Thomas	<i>Director</i>
Edna Jackson	<i>Counselor</i>
Shirley James	<i>Counselor</i>
Shelia Monroe	<i>Secretary</i>
Yvonne Stevens	<i>Counselor</i>

DIVISION OF STUDENT SUPPORT AND SPECIAL PROGRAMS

Willie Mae Robinson	<i>Director</i>
Brenda Fabian	<i>Clerk Typist</i>
Gwendolyn Handy	<i>Program Counselor</i>
Peggy Hutchins	<i>Academic Specialist</i>
David Miller	<i>Academic Specialist</i>
Erma Jean Mobley	<i>Administrative Asst.</i>
Lee Grant Pearson	<i>Counselor</i>
Doreatha S. Tyson	<i>General Counselor</i>

PUBLIC SAFETY STAFF

Isaiah Williams	<i>Chief of Security</i>
Yvonne Cutter	<i>Public Safety Officer</i>
Sherman L. Scott	<i>Public Safety Sergeant</i>
Steve J. Taylor	<i>Public Safety Lieutenant</i>

SECRETARIAL STAFF

Barbara Ann Briggs	<i>Secretary, Secretarial Center</i>
Linda Boyd	<i>Secretary, Office of Graduate Studies</i>
Juanita Harper	<i>Administrative Assistant, Office of Student Personnel</i>
Helena Hickson	<i>Secretary, Plant Operations</i>
Patricia Humphrey	<i>Secretary, Division of Business</i>
Doris Jackson	<i>Secretary, Secretarial Center</i>
Jeannette Jenkins	<i>Secretary, Department of Chemistry</i>

SAVANNAH STATE COLLEGE

Campus Map



NOTE: (*) Location of Comprehensive Counseling Cntr.

